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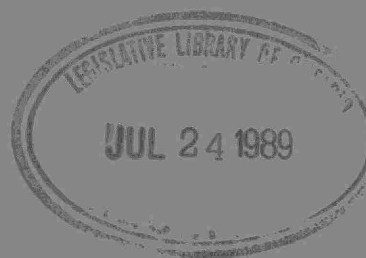
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**WATER QUALITY DATA  
FOR ONTARIO  
LAKES AND STREAMS  
1983**

**VOLUME XIX**

**SOUTHWESTERN REGION**

**MARCH 1989**



**Environment  
Ontario**

**Jim Bradley  
Minister**

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WATER QUALITY DATA FOR ONTARIO LAKES AND STREAMS

1983

VOLUME XIX

SOUTHWESTERN REGION

Water Resources Branch

March 1989

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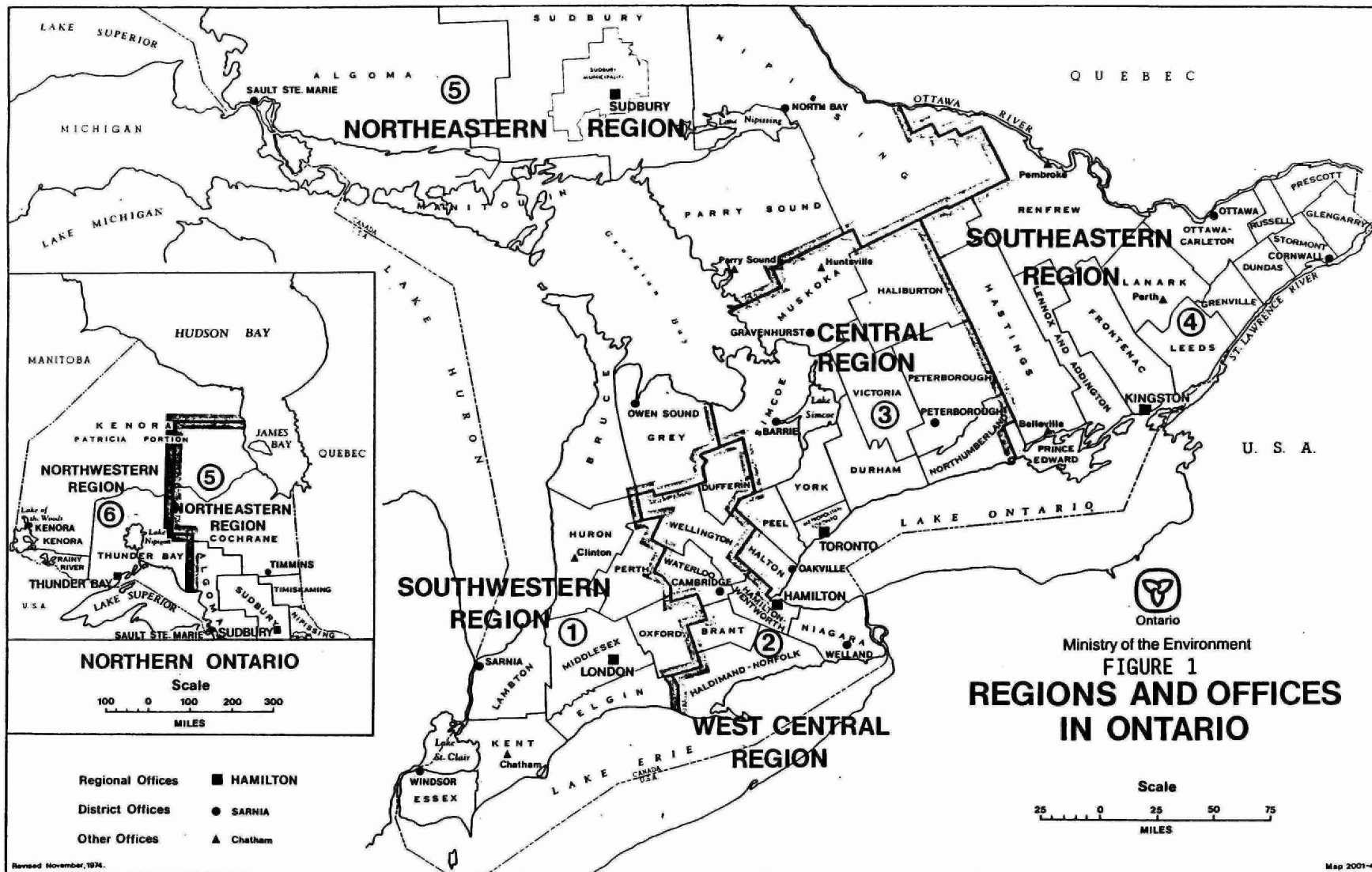
## INTRODUCTION

"Water Quality Data Ontario Lakes and Streams, 1983, Volume XIX, Southwestern Region", is a revised version of the previously published series entitled "Water Quality Data for Ontario Lakes and Streams, 1981, Volume I-XVII". Published by the Water Resources Branch of the Ontario Ministry of the Environment. The data presented in this publication were collected by the Water Resources Assessment Units of this Ministry's six Regional Offices (Figure 1) with the assistance of local Conservation Authorities. Compilation and publication were performed by the River Systems Section of the Water Resources Branch. The data result from a routine sampling program designed to provide a long-term record of water quality information at specific points on rivers and inland lakes in Ontario.

Sampling station locations have been selected to meet one or more of the following requirements: (1) to measure quantitatively and qualitatively, the materials discharged from tributary streams to the terminal basins; (2) to monitor the effects of wastewater discharges on a watercourse; (3) to provide data that can be considered generally representative of water quality conditions in a certain area.

The information is used by the Ontario Ministry of the Environment to maintain surveillance over water quality and to provide supporting data used in the analysis and prediction of water quality for planning and other purposes. The data are also made available to any person or agency concerned with the quality of Ontario's rivers and lakes. The booklet "Water Management Goals, Policies, Objectives and Implementation Procedures of the Ministry of the Environment", 1978 (Revised May, 1984) outlines the current policies for water management in Ontario.

Samples are analysed for some or all of the following parameters: counts of total and fecal coliforms, enterococci, *Pseudomonas aeruginosa* and *Escherichia coli* forms, concentrations of biochemical oxygen demand, total phosphorus, filtered reactive phosphate, filtered ammonia, total Kjeldahl nitrogen, filtered nitrite and nitrate forms of nitrogen; total suspended and dissolved solids; levels of conductivity and



Ministry of the Environment  
**FIGURE 1**  
**REGIONS AND OFFICES**  
**IN ONTARIO**

turbidity; concentrations of chlorides, sulphates, unfiltered reactive silicates, acidity, alkalinity; units of pH; concentrations of total iron, phenols, hardness, calcium, magnesium; units of colour; concentrations of potassium, sodium, total organic carbon, chemical oxygen demand, solvent extractables, arsenic, mercury, aluminium, chromium, copper, lead, cadmium, zinc, manganese, nickel, fluoride, cyanide and cobalt.

In addition, radiochemical analyses are conducted on selected samples and the results are expressed as levels of ionizing radiation (i.e. the number of nuclear disintegrations per second). Selected samples are analysed for some or all of the following radiochemical parameters: gross alpha, gross beta, radium-226, total uranium, cesium-137, cesium-134, cobalt-60, tritium and iodine 131.

Some samples are also analysed for some or all of the following synthetic organic parameters: concentrations of PCB, PCP and 2,4,5-T.

The water quality monitoring program commenced in July 1964 in Southern Ontario and currently consists of a total of 780 stations throughout Ontario. The following maps (figures 2 and 3) show the Southern and Northern Ontario Terminal Basins which are used to identify the sampling station locations. Definitions or brief descriptions are provided for the more common parameters of pollution under the section entitled Interpretation of Data.

Other water quality monitoring programs such as the Fish Contaminant Monitoring Program which is co-ordinated by the Ontario Ministries of Natural Resources, Environment and Labour are not discussed in this publication. A summary of health implications of contaminants in fish with a listing of test results from each fish sampling location can be found in the Ministry publication, "Guide to Eating Ontario Sport Fish." This publication is updated annually and is available free of charge, Ministry of the Environment, Water Resources Branch, 135 St. Clair Avenue West, Toronto, Ontario, M4V 1P5, telephone (416) 323-4994.

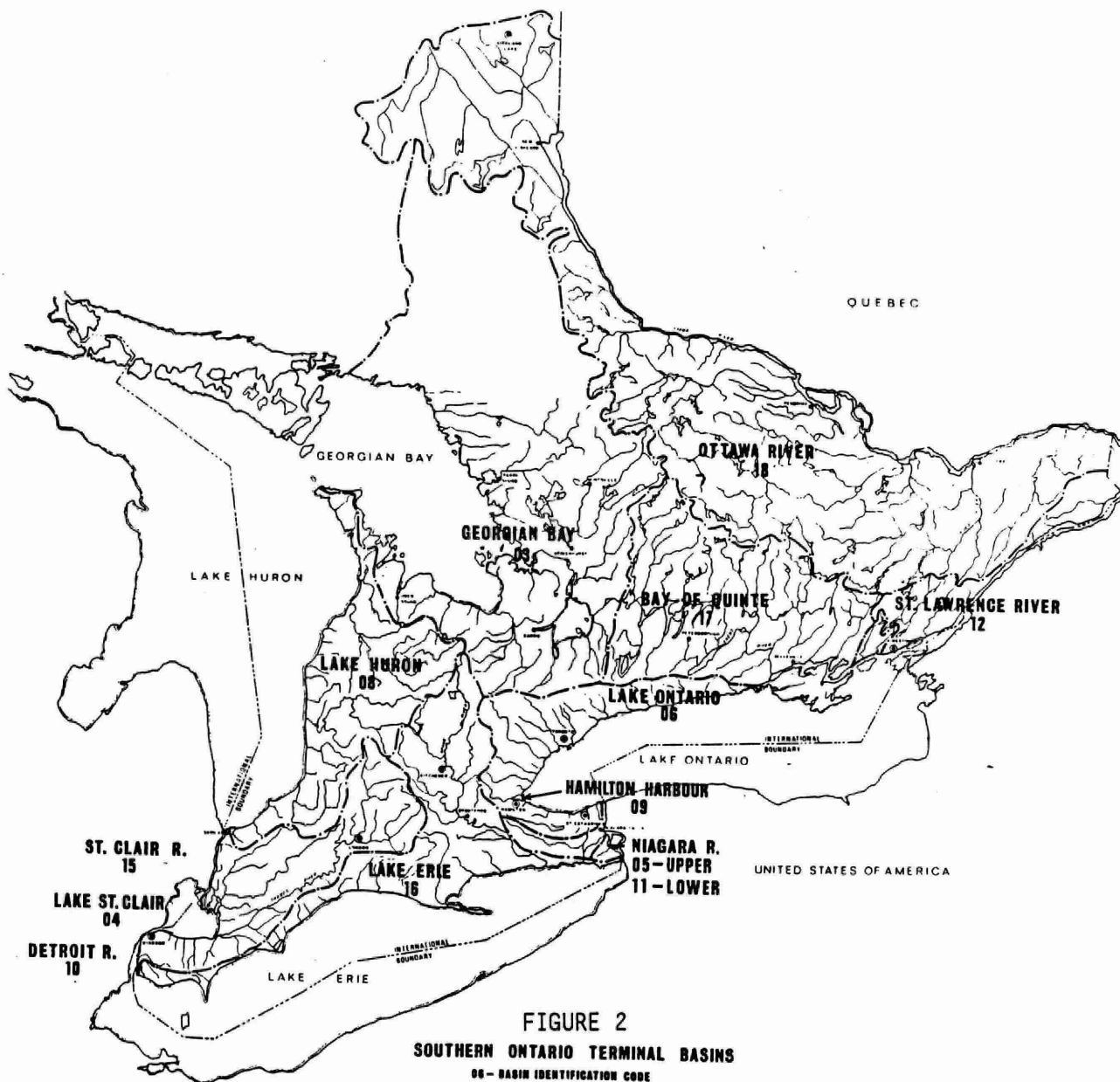


FIGURE 2  
SOUTHERN ONTARIO TERMINAL BASINS  
06 - BASIN IDENTIFICATION CODE



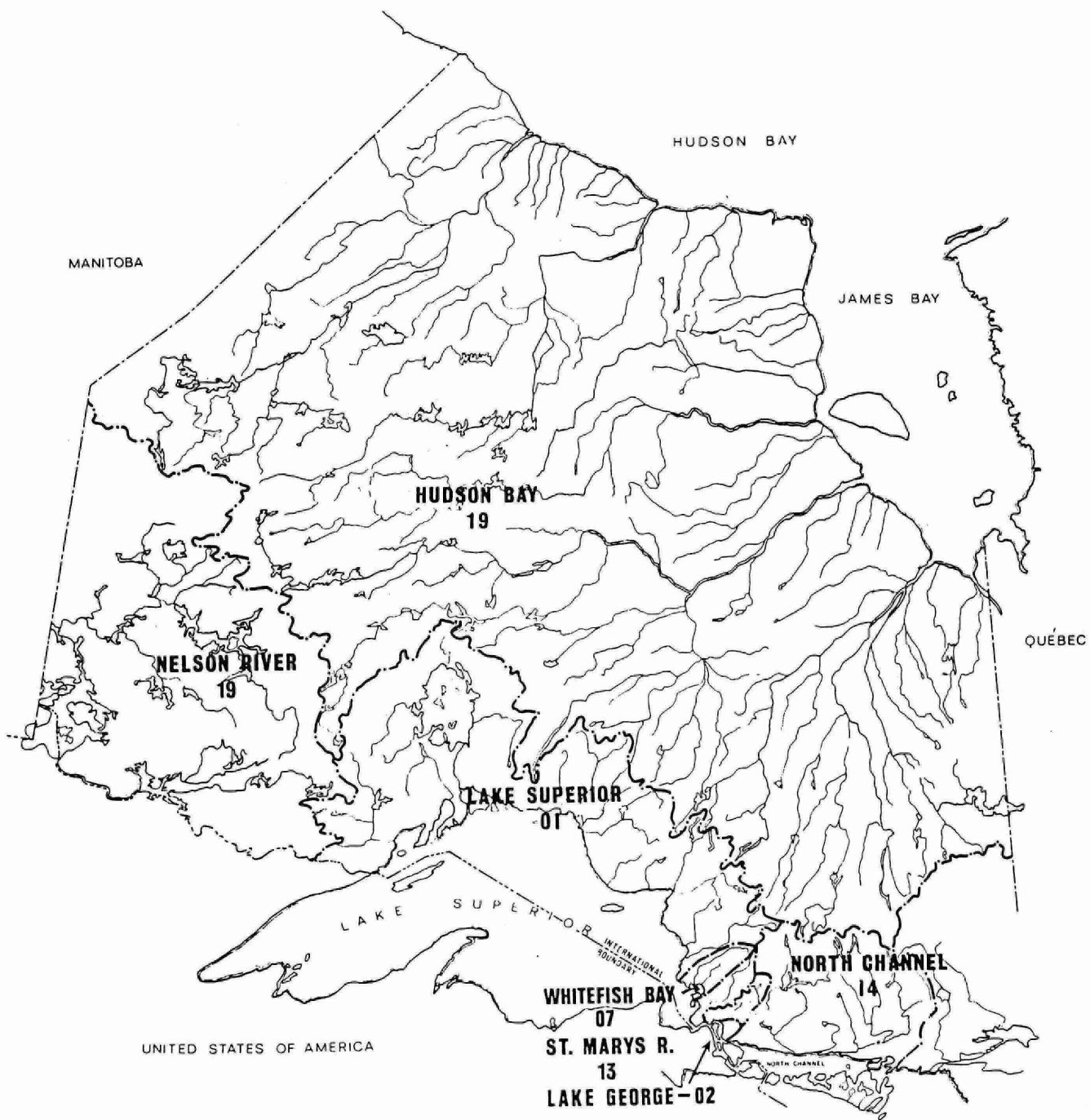


FIGURE 3  
 NORTHERN ONTARIO TERMINAL BASINS  
 19 - BASIN IDENTIFICATION CODE

The streamflow station network in Ontario is not discussed in this publication. Whenever streamflow data exists at tributary locations which are coincident with the water quality monitoring station locations, mean daily discharges is reported along with the water quality data. The collection of hydrometric data in Ontario has been carried out under a Memorandum of Agreement between the Government of Canada and the Province of Ontario since April, 1975. The Province of Ontario is represented in the Agreement by the Ministry of the Environment, the Ministry of Natural Resources and Ontario Hydro. These agencies meet at regular intervals with the Water Survey of Canada to administer the Agreement. Streamflow data for Ontario are published annually as surface water data by the Federal Government.

#### NETWORK MAP SHEETS

Individual station locations are identified on specially prepared network maps. These network maps have been drawn to conform approximately to the boundaries of the Ministry's Regions, and are grouped according to Regions. Two index maps (Figures 4 and 5) illustrate individual map sheet coverages within the Province.

The following procedures was used in the preparation of the maps. Individual base maps within a Region were assembled using the National Topographic Series maps at a scale of 1:250,000. In northern Ontario, this was reduced to a scale of 1:500,000 in the Lake Superior and Nelson River basins, and to a scale of 1:2,000,000 in the Hudson Bay basin. For each base map, an overlay of the river systems was prepared, showing major watershed and Ministry of the Environment Regional boundaries. Numeric terminal basin and stream codes were added, and active water quality monitoring stations were located on each overlay and referenced with station numbers. The overlays were then reduced to approximately 40% of their original size for purposes of this publication.

The previously-mentioned terminal basin and stream code, when combined in sequence with a given station number, form a unique station identifier which appears as the "Station ID". The "Station ID" is listed for all active monitoring stations in the "Sampling Station Directory", an alphabetical listing of terminal streams monitored in Southwestern Region (See Sampling Station Directory).

The location of stations in the Southwestern Region are shown in figures 6, 7, and 8. The locations of the other stations in the other regions and in other parts of Ontario such as those located on the Great Lakes or those operated by the Water Quality Branch, Ontario Region, Environment Canada, are not included.

### INTERPRETATION OF DATA

The definition of the parameters measured in the Provincial Water Quality Monitoring Program are listed in the following pages. The significance of each measurement in regard to specific water uses can be determined by referring to the booklet "Water Management, Goals, Policies, Objectives and Implementation Procedures of the Ministry of the Environment, November, 1978". (Revised, May 1984)

#### A. ANALYSES AND MEASUREMENTS CONDUCTED AT THE SAMPLING SITE

##### Stream Condition

The physical condition of the body of water is described from an on-site examination at the time of sampling and is represented by a one-digit number from one to zero as follows:

1. Stream dry
2. Frozen to stream bed
3. Stream in flood condition
4. Sampled through ice



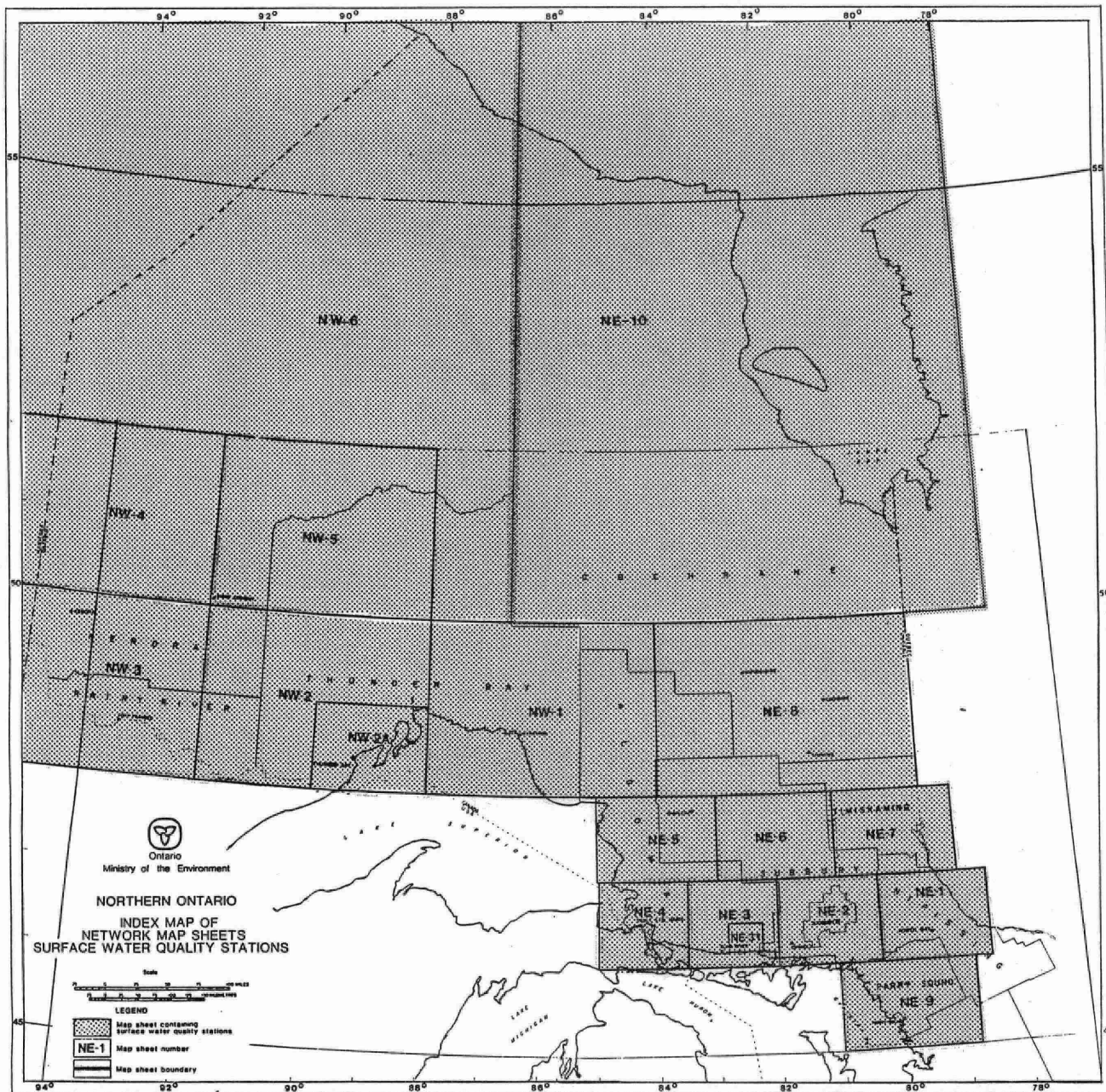


FIGURE 5

MINISTRY OF THE ENVIRONMENT  
Water Resources Branch

FIGURE 6

**SURFACE WATER  
QUALITY NETWORK  
1983**

MAP SW-1

### Southwestern Region

5 0 5 10 Kilometres

### LEGEND

**19** Terminal Basin Code

**0123** Terminal Stream Code (shown at the most downstream point of the stream)

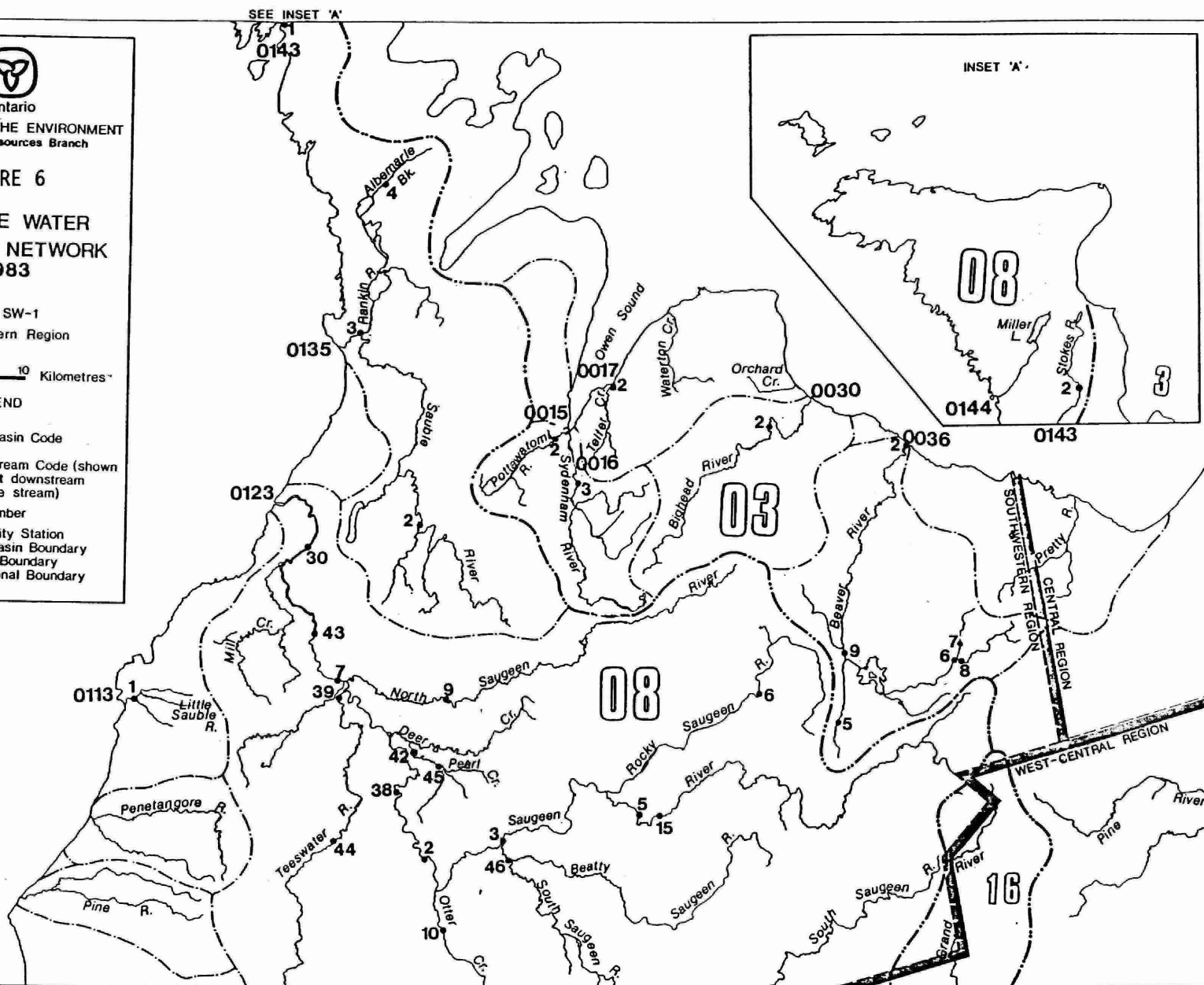
**12** Station Number

- Water Quality Station

--- Terminal Basin Boundary

--- Watershed Boundary

--- MOE Regional Boundary







Ontario

MINISTRY OF THE ENVIRONMENT  
Water Resources Branch

FIGURE 7

SURFACE WATER  
QUALITY NETWORK  
1983

MAP SW-2

Southwestern Region

5 0 5 10 Kilometres

LEGEND

19

Terminal Basin Code

0123

Terminal Stream Code (shown  
at the most downstream  
point of the stream)

12

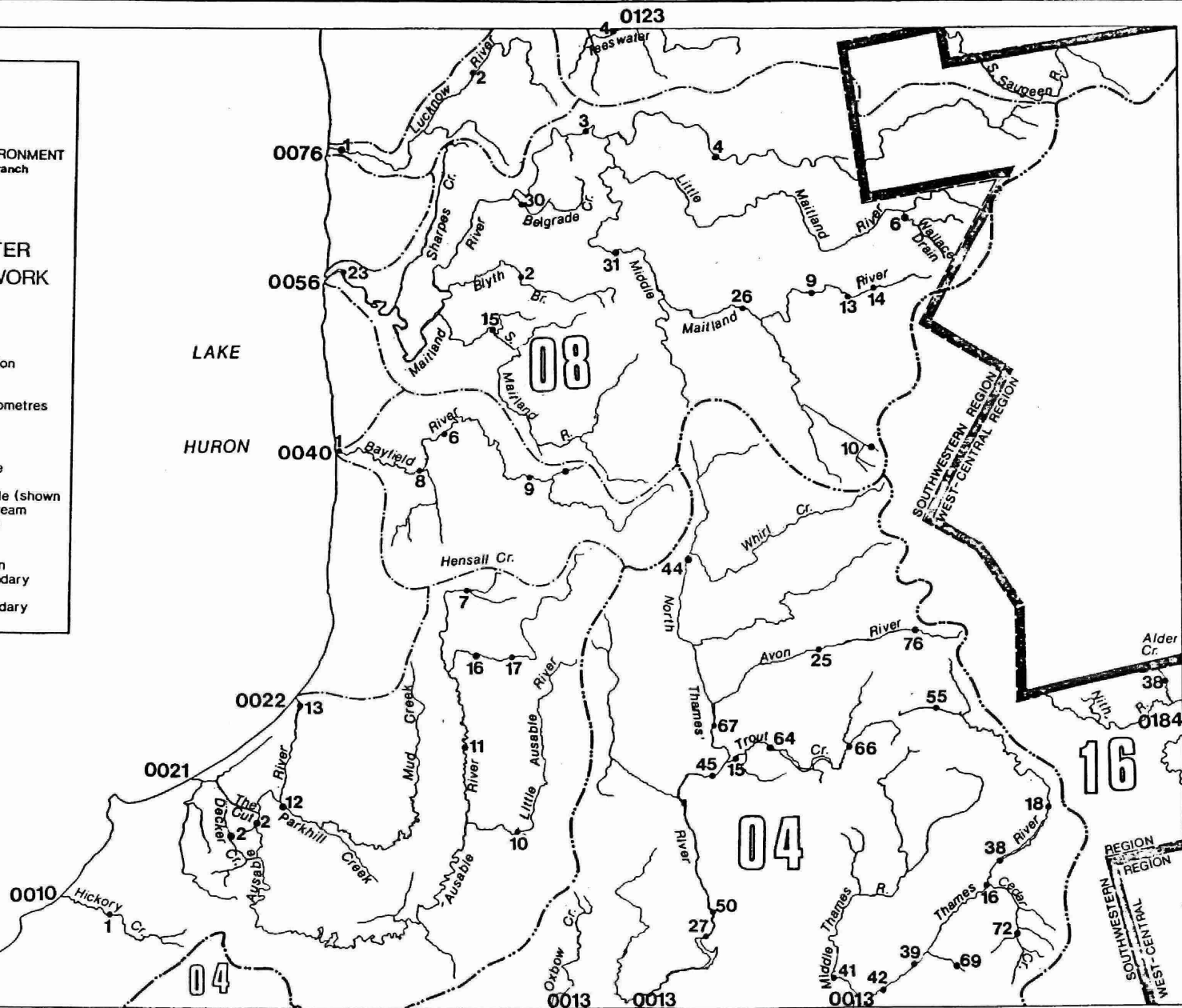
Station Number

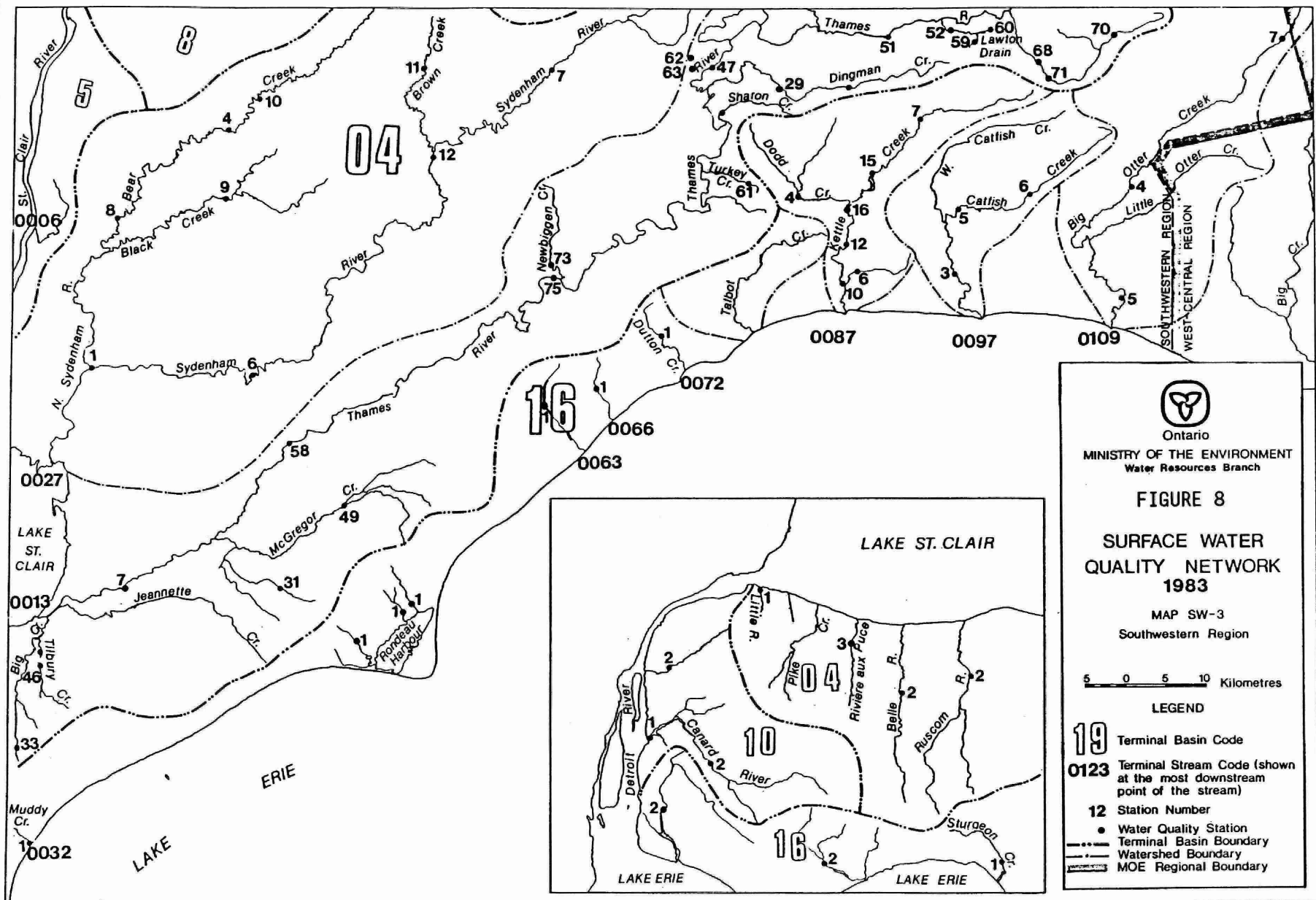
• Water Quality Station

--- Terminal Basin Boundary

--- Watershed Boundary

--- MOE Regional Boundary







5. Suspended algae
6. No apparent algae
7. Profuse weed growth
8. Normal
9. Oil scum or floating matter
10. Objectionable odours

Under some circumstances a combination of up to three of the above conditions may be shown for a given sample at an individual station.

### **Streamflow**

Streamflow information at or near a water quality monitoring site is an important factor when interpreting and employing water quality data. The product of streamflow and concentration defines the mass of material passing a point. Streamflow is also a useful reference when comparing water quality data for different periods of the year (e.g. spring flood vs summer drought).

Flows in many of the streams sampled are measured by the Water Survey of Canada, Inland Waters Directorate, Environment Canada.

### **Temperature**

Water temperature is an important factor when a number of water quality parameters are being evaluated. Temperature directly affects the solubility of gases (e.g. dissolved oxygen) and significantly affects biological and chemical reaction rates.

Temperature is measured at the sampling site with an electronic thermistor or a mercury thermometer.

## Dissolved Oxygen

Dissolved oxygen in water originates directly from the atmosphere or through photosynthesis in aquatic plants. Ample dissolved oxygen is necessary to maintain satisfactory conditions for fish and other biological life in water. Organic wastes and some inorganic materials exert, upon decomposition, an oxygen demand which may deplete the dissolved oxygen below levels required by aquatic life.

Dissolved oxygen is measured at the sampling site with an electronic meter or by a chemical titration.

## **B. ANALYSES AND MEASUREMENTS CONDUCTED AT THE LABORATORY**

### **1. MICROBIOLOGICAL ANALYSES**

#### **Total Coliform**

The Membrane Filter (MF) technique is used to obtain an approximation of the concentration of total coliform organisms. These organisms are normal inhabitants of soils and the intestines of man and other warm-blooded animals. They are always present in large numbers in sewage and fecal matter, and are often found in watercourses adjacent to industrial, agricultural and other pollution sources.

Results are reported as MF count per 100 mL of sample.

#### **Background Count**

The background count estimates the number of organisms, other than coliforms, that occur in the total coliform analysis of a sample. The results are used in the interpretation of total coliform counts. High background counts are generally indicative of poor water quality.

### Fecal Coliform and Fecal Streptococcus (Enterococcus) Organisms

Fecal coliform and Enterococcus organisms are generally found in the alimentary tract of warm-blooded animals. They are indicative of sanitary waste intrusion and/or fecal contamination from warm-blooded animals.

#### Pseudomonas aeruginosa

Pseudomonas aeruginosa, are pathogens found in sewage, that can be readily isolated. These organisms are sometimes found in bathing waters and are the major pathological agent in otitis externa (ear aches) and other skin infections.

#### Escherichia Coliform (E. Coli)

E. Coli is the predominant, facultative bacterial species in the large bowel and is thus the coliform most directly related to fecal pollution. E. Coli is occasionally pathogenic to man (e.g. urinary tract infections) but is primarily an indicator organism in water bacteriology.

## **2. CHEMICAL AND PHYSICAL ANALYSES**

### Biochemical Oxygen Demand (BOD)

In itself, BOD is not a pollutant and presents no direct harm to the aquatic environment. It is, however, a measure of the unstable organic matter present in water which, through aerobic decomposition, oxidizes to a stable inorganic form utilizing the oxygen resources of a watercourse. The level of BOD is an important parameter in assessing the potential concentrations of dissolved oxygen in water.

Five-day biochemical oxygen demand ( $BOD_5$ ) is a laboratory measurement of the amount of oxygen consumed in a sample incubated for five days at 20°C.

### Total Phosphorus

Phosphorus is a primary nutrient for plant and animal life and like nitrogen passes through cycles of decomposition and photosynthesis. This element is commonly found in nature in the form of inorganic phosphates and organically bound phosphorus. Total phosphorus includes orthophosphate, condensed phosphates and organically bound phosphorus in both the dissolved and particulate form. Untreated or treated sewage, some industrial wastes and agricultural and urban drainage contain significant concentrations of phosphorus.

Although there is no firm criterion for phosphorus, it is generally considered that to eliminate excessive plant growths in rivers and streams, total phosphorus should not exceed 0.03 mg/L. To avoid nuisance concentrations of algae in lakes, average total phosphorus concentrations for the ice free period should not exceed 0.02 mg/L.

### Filtered Reactive Phosphate

Filtered reactive phosphate is that phosphorus which passes through a 1-2 micrometre filter and responds to a colorimetric orthophosphate determination. It is a combination of simple orthophosphate and readily hydrolyzed phosphate primarily in the dissolved form.

Filtered reactive phosphate is generally considered to be readily available for aquatic plant growth.

### Filtered Ammonia Nitrogen

Filtered ammonia nitrogen (ammonia  $\text{NH}_3$  and ammonium  $\text{NH}_4^+$ ) is the soluble product in the anaerobic decomposition of nitrogenous organic matter. It is also formed when nitrites and nitrates are reduced either biologically or chemically. Small amounts of ammonia nitrogen may be taken out of the atmosphere by rain water.

Rivers which are considered unpolluted generally have filtered ammonia levels of less than 0.1 mg/L.

### Total Kjeldahl Nitrogen

Total Kjeldahl nitrogen is a measure of the total nitrogenous matter present, excluding nitrate and nitrite. The total Kjeldahl nitrogen concentration, less the ammonia nitrogen concentration, gives a measure of the organic nitrogen present.

Ammonia and organic nitrogen are important in assessing the availability of nitrogen for biochemical utilization. In unpolluted rivers, the normal range for total Kjeldahl nitrogen is 0.1 to 0.5 mg/L.

### Filtered Nitrite

Nitrite is an intermediate oxidation product of ammonia and also an intermediate form in the denitrification process from nitrate to nitrogen gas. The significance of nitrites, therefore, varies with their amount, source and relation to other constituents of samples (notably the relative magnitude of ammonia and nitrate present).

Since nitrite is rapidly and easily converted to nitrate, its presence in concentrations greater than a few micrograms per litre is generally indicative of active biological processes in the water.

### Filtered Nitrate

Nitrate is the end product of the stabilization of organic nitrogen which occurs primarily through aerobic biochemical processes. Nitrate is usually found in polluted waters that have undergone some degree of self-purification. Nitrates can also occur in watercourses intercepting drainage from fertilized agricultural areas.

Nitrogen in the form of nitrate is readily utilized by aquatic plants and algae. In unpolluted rivers, the nitrate nitrogen concentration is generally less than 0.5 mg/L.

### Inorganic Nitrogen

Inorganic nitrogen is a calculated value and represents the sum of the concentrations of filtered ammonia nitrogen and filtered (nitrate plus nitrite) nitrogen.

### Organic Nitrogen

Organic nitrogen is a calculated value and represents the difference between the concentrations of total Kjeldahl nitrogen and filtered ammonia nitrogen.

### Total Nitrogen

Total nitrogen is a calculated value and represents the sum of the concentrations of total Kjeldahl nitrogen and filtered (nitrate plus nitrite) nitrogen. Nitrogen is a common constituent of decomposition products, treated sewage, fertilizers and industrial discharges. Nitrogen compounds are present in most plant and animal materials.

### Solids

Total, suspended and dissolved solids are presented as separate parameters in this report. The solids analyses are gross measurements of the amounts of particulate matter and dissolved materials found in water. Solids enter the watercourse from virtually every source, the most familiar being sewage treatment plant effluents, municipal storm drainage, industrial discharges and erosion.

Solids significantly affect water uses. Highly turbid water is undesirable for municipal and industrial supply, fish and aquatic life, recreation and aesthetics. Suspended solids can also transport significant quantities of organic and inorganic trace contaminants.

### Conductivity

The conductivity test provides a measure of the electrolytic properties of water. The presence of dissolved ions (in solution) such as chlorides, sulphates and calcium, renders water conductive.

Conductance, the reciprocal of resistance, is recorded in the unit mho and in order to avoid inconvenient decimals, data are reported in micromhos per cubic centimetre. In many waters there is a direct linear relationship between dissolved solids concentrations and conductivity.

Conductivity serves as a control parameter and is an excellent indicator of water-quality changes since it is relatively sensitive to variations in dissolved-solids concentrations.

### Turbidity

The turbidity of water is attributable to suspended and colloidal matter such as micro-organisms, detritus, clay and other mineral substances which reduce clarity and diminish the penetration of light.

Turbidity is undesirable in surface waters used for domestic and industrial supply and for recreation. Often some of the suspended matter has to be removed to prevent interference with disinfection processes and abrasion to equipment. By interfering with the penetration of light, turbidity can seriously affect aquatic biological communities.

### Chlorides

Chlorides are found in practically all natural waters. They may be of natural mineral origin but in general the largest contributions can be traced to domestic sewage discharge, municipal storm drainage, road salting, and industrial wastes.

While not harmful to health in moderate quantities, high concentrations of chlorides make water unfit for municipal and industrial supplies and livestock watering. In addition to imparting an objectionable taste to water, high chloride levels are responsible for increased corrosiveness of water. Furthermore, chloride, being toxic to many plants, may render water undesirable for irrigation.

### Sulphate

Sulphates may occur naturally in waters and may be contained in industrial wastes. They are produced from the final oxidation stage of sulphides, sulphites and thiosulphates. Sulphates, under anaerobic conditions, can be reduced to hydrogen sulphide which is malodorous (the odour of rotten eggs) and highly corrosive.

High concentrations (between 150 and 500 mg/L) in drinking water may be cathartic to humans.

### Sulphide

Sulphide is formed by bacterial reduction of sulphate and organic sulphur compounds under anaerobic conditions. It is therefore, commonly found in domestic wastewater, industrial wastewater, sludges, hypolimnions of stratified lakes and any other aquatic systems where anaerobic conditions prevail. As a result, concentrations in surface waters are negligible.

Sulphide is an important parameter in waste treatment monitoring. Oxidation of sulphide to sulphuric acid in concrete sewer pipes leads to "crown corrosion". Soluble sulphides in excess of 200 mg/L are toxic to bacteria and will inhibit sludge digestion.

### Unfiltered Reactive Silicate

Silicon occurs in sand or quartz as silica and as silicates in feldspar, kaolinite and other minerals. Silicon dioxide, or silica, is insoluble in waters or acids, except hydrofluoric acid, but it may occur in natural waters as finely divided or colloidal suspended matter. Silica is widely employed in industry for making glass, silicates, ceramics, abrasives, enamels, petroleum products, etc.



In concentrations found in natural and treated waters, silica or silicates have no adverse physiological effects. Silicates are essential to the growth of many aquatic organisms.

The data which appear under the heading "Reactive Silicate" should properly be referred to as "Unfiltered Reactive Silicate" and are reported as Silicon (Si). Data in this series of publications prior to 1975 were reported as Silica ( $\text{SiO}_2$ ).

### Acidity

Acidity in surface or ground waters may be attributable to natural causes, such as humic acids extracted from swamps or peat beds, or industrial wastes such as pickling liquors, effluent from the manufacture of explosives, acid mine drainage or sulphite waste liquors. It may also be affected by atmospheric inputs.

Acidity is best interpreted in conjunction with the pH and alkalinity, as well as any other analyses which identify the acidic components of water.

### Alkalinity

Alkalinity is a measure of a water's capacity to neutralize an acid. The alkalinity of natural waters is caused by three major classes of materials which may be ranked in order of their effect on pH as follows:

1. Hydroxides (rarely present in Ontario)
2. Carbonates
3. Bicarbonates and other salts of weak acids

The alkalinity of water has little sanitary significance but is of importance in water and waste treatment practices. Waters with high alkalinity are undesirable because of their associated excessive hardness.

## pH

The symbol pH is used to designate the logarithm (base 10) of the reciprocal of the hydrogen-ion concentration. It is an index of the acidity or alkalinity of the solution. The practical pH range extends from 0, very acidic, to 14, very alkaline, with the middle value of pH 7 corresponding to exact neutrality at 25°C.

The pH is important in determining the treatment of water supplies.

## Iron

Iron is one of the most abundant elements in the earth's crust and it is a constituent of many industrial wastes.

When sufficient iron is added to water in the form of salts (chlorides, nitrates, sulphates), ferrous to ferric precipitates (iron hydroxides) tend to form, causing low pH values which are toxic to aquatic life. Iron in water may also result in the growth of iron bacteria causing unpalatable tastes, discolouration of cloths and plumbing fixtures, and the formation of scales in water mains.

## Phenols

The phenolic compounds, collectively referred to as phenols, are those hydroxyl derivatives of benzene or its condensed nuclei, which are determined by the 4-amino antipyrine method. The results are reported from many industrial processes and may also be released from aquatic plants and decaying vegetation.

Depending on the concentration, the presence of phenolic compounds may be toxic to fish, and may taint the flesh of fish. Phenols in very minute concentrations will combine with chlorine to produce tastes and odours which are usually described as medicinal or chemical.

## Hardness

Water hardness relates to a water's capability to produce lather from soap. The higher the hardness, the less lather will be formed.

Hardness in water is caused by dissolved divalent metal ions, calcium and magnesium being the most common. Natural hardness occurs most frequently in limestone areas. The limestone is dissolved by contact with ground and surface water and releases calcium ions and traces of contaminant metals.

Hard water, though not considered a health hazard, is undesirable for industrial and domestic water supplies because it has a number of detrimental effects, the most common being the formation of scale in boilers, pipes and water heaters; excessive soap consumption in home and commercial laundering; and adverse affects in textile, plating and canning industries.

Results appear under either the heading "Hardness" and "Calculated Hardness", depending on the analytical procedure. The former results are obtained through titration with ethylenedi-aminetetra- acetic acid (EDTA), the latter by calculation from magnesium (Mg) and calcium (Ca) results determined by Atomic Absorption Spectrophotometry (AAS).

## Calcium

Calcium is relatively abundant in the earth's crust and readily soluble in water so that calcium salts and calcium ions are among the most commonly encountered substances in water. They may result from the leaching of soil and may be contained in sewage and industrial wastes.

Excessive calcium and magnesium in drinking water have been implicated as factors predisposing to the formation of concretions in the body, such as kidney, or bladder stones. On the other hand, there is also evidence of adverse physiological effects from an insufficiency of calcium in water. The calcium ion is a major contributor to hardness and is often responsible for boiler scale deposits on cooking utensils

and excessive soap requirements in washing and laundering. Where water is used for irrigation, calcium is beneficial to plant growth.

### Magnesium

Magnesium is an abundant element and a common constituent of natural waters. Magnesium ranks with calcium as a major cause of hardness. The effects of magnesium of water used for consumption and irrigation are generally the same as those of calcium. Magnesium is considered relatively non-toxic to man and not a public health hazard because before toxic concentrations are reached in water, the taste becomes quite unpleasant.

### Colour

Colour in water may be of natural mineral or vegetable origin caused by metallic substances such as iron and manganese compounds, humus material, peat, tannins, algae, weeds, and protozoa. Waters may also be coloured by inorganic or organic soluble wastes from industries, such as steelworks, mining, refining, pulp and paper, chemicals, and others. Returned irrigation water also contributes to colour.

Colour from natural origin is not considered harmful from a health standpoint. However, in domestic water, colour is undesirable from aesthetic considerations.

### Potassium

Potassium occurs in many minerals and potassium salts exist in natural waters as a result of contact with potassium-bearing soils and the introduction of certain industrial wastes. The common salts of potassium are highly soluble in water. They resist separation from water by natural processes other than evaporation.

In limited concentrations, potassium is an essential nutrient. Excessive amounts of certain potassium salts in drinking water have detrimental effects on human digestive and nervous systems.

### Sodium

Sodium salts are common to all natural waters and may be present in high concentrations in wash waters softened by exchanging calcium and magnesium ions for sodium. Sodium is also found in many industrial process effluents, domestic wastes and salts used in road de-icing.

The presence of sodium salts in drinking water may present a health hazard to a person with circulatory, renal and cardiac problems and may cause digestive problems in animals and otherwise healthy human beings. Concentration of salts such as sodium chloride impact objectionable tastes and may render water unpalatable.

### Total Organic Carbon (TOC)

Total organic carbon (TOC), the most significant carbon measurement from a water-quality assessment viewpoint, is the arithmetic difference between total carbon (TC) and total inorganic carbon (TIC).

Total organic carbon usually has a direct relationship with Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) values, but the relationship varies with the composition of the organic material present. The carbon tests are rapid and suitable for the evaluation of organic pollution levels, assessment of waste treatment efficiencies and to a limited extent, the potential demand of a waste discharge on the oxygen resources of a water body.

### Dissolved Organic Carbon (DOC)

The organic content of lakes and rivers depends primarily on the products of plants and animals which those water bodies support. Most of the organic carbon in water is composed of humic substances and partly degraded plant and animal materials, some of which is resistant to microbial degradation. Runoff from agricultural land and industrial discharge from industries such as pulp and paper will add organic carbon to the water. The degradation of large amounts of organic matter causes depletion of the dissolved oxygen concentration and hence, organic carbon is also measured on sewage and industrial waste samples. In natural waters, the organic carbon content will usually be less than 30 mg/L.

### Chemical Oxygen Demand (COD)

The chemical oxygen demand is used in measuring the strength of sewage and industrial wastes. The major advantage of this test is that laboratory results can be obtained in about three hours compared to five days for the five-day biochemical oxygen demand test. The chief limitation of the COD analysis is its inability to differentiate between biologically oxidizable and biologically inert organic matter. The COD almost always exceeds the biochemical oxygen demand.

### Solvent Extractables

The solvent extractable test measures the total quantity of substances present in a water sample that is readily soluble in an appropriate organic solvent. Such substances include fatty acids, petroleum products, oils, greases and resins. They are generally found in effluents of oil refineries, meat packing plants, slaughter houses, dairies, canneries, and a variety of other industries.

Solvent soluble materials greatly increase the oxygen depletion rate in receiving waters and will hinder oxygen exchange with the atmosphere by forming slicks.

### Arsenic

Arsenic may occur, naturally, to a small extent, mostly as sulphides and as arsenides of metals. Elemental arsenic is insoluble in water but many of the arsenates are highly soluble. Highest levels of arsenic in Ontario are found in watercourses downstream of wastewater discharges from metal smelting operations.

Arsenic is very toxic to humans and the trivalent forms are largely retained in the body tissues. Low concentrations of arsenic stimulate plant growth but higher concentrations destroy chlorophyll in the foliage.

### Mercury

Mercury may occur naturally as a free metal or as mercuric salts, the most common being cinnabar, HgS. Both elemental mercury and HgS are insoluble in water and are not likely to occur as water pollutants. Many synthetic organic salts of mercury are used commercially and these salts are highly soluble in water.

Mercury is cumulative and toxic to humans and can be concentrated and transferred up the food chain to a point where commercial and game fish may become unsuitable for human consumption. Micro-organisms can methylate inorganic mercury under both aerobic and anaerobic conditions to produce a more toxic substance.

### Aluminium

Aluminium occurs in many rocks and ores but never as a pure metal in nature. In streams, the presence of aluminium ions may result from industrial wastes or more likely from wash water from water treatment plants.

Aluminium in a public water supply is not considered a public health problem, since no evidence has been found to prove that aluminium in water supplies is harmful to human beings.

## Chromium

Few waters contain chromium from natural sources since chromium is generally present in rocks and soils as insoluble chromic oxide which is strongly sorbed to particulate matter. Chromate or dichromate salts are used extensively in metal pickling and plating operations, in anodizing aluminium, in the leather industry as a tanning agent, and in the manufacture of paints, dyes, explosives, ceramics, paper and many other substances. Chromic or chromite salts on the other hand, are used much less extensively being employed as mordants in textile dyeing, in the ceramic and glass industry and in photography. Chromium compounds may be present in wastes from many of the foregoing industries or may be discharged in chromium-treated cooling waters where the chromium is used as a corrosion inhibitor.

There is no evidence that chromium salts are essential or beneficial to human nutrition. Salts of trivalent chromium are not considered to be physiologically harmful; however, large doses of chromates lead to corrosive effects in the intestinal tract and to nephritis. Both the chromic and chromate ions are toxic to plants and interfere with the uptake of essential elements.

## Copper

Copper salts occur in natural surface waters in trace concentrations and may occur in industrial waste discharges. Copper is used as an algicide for the control of undesirable algae growth and in the treatment of soils as a fungicide and a pesticide.

Copper compounds are toxic to plants and aquatic life. Prolonged ingestion may cause liver damage in man.



## Lead

Some natural waters contain lead in solution. Lead may be introduced into water as a constituent of various wastes including industrial and mining effluents, lead plumbing and automobile exhaust. Certain lead salts, such as acetate and chloride, are readily soluble. However, lead which occurs in the carbonate, hydroxide and sulphate forms is sparingly soluble and will not remain long in natural waters.

Lead is a cumulative poison that tends to be deposited in the bone. The intake that can be regarded as safe cannot be stated definitely because the sensitivity of individuals to lead differs considerably. Studies on fish indicate that in water containing lead salts, a film of coagulated mucus forms over the gills and then the entire body, probably as a result of a reaction between lead and an organic constituent of mucus. The fish then die of suffocation. The toxic effects of lead on fish decreases with increasing hardness and dissolved oxygen.

## Cadmium

In the elemental form, cadmium is insoluble in water. It occurs in nature largely as a sulphide salt, greenockite or as a cadmium blend and often as an impurity in zinc-lead ores.

Cadmium salts are cumulative and highly toxic to man having been implicated in some cases of food poisoning. Consumption of cadmium salts causes cramps, nausea, vomiting, and diarrhea. Cadmium affects reproduction in fish and zooplankton; however, the toxic effects vary with species and time of exposure.

## Zinc

Generally, zinc occurs only in trace amounts in surface waters. The zinc ion is believed to adsorb strongly and permanently on particulate matter (e.g. silt) which settles out of suspension.

Zinc has no known adverse physiological effects upon man except at very high concentrations. At such concentrations, zinc gives water a milky appearance and causes a greasy film on boiling, thus making it unattractive for domestic water supply. Zinc is toxic to aquatic organisms and its toxicity decreases with increasing hardness.

### Manganese

Manganese is similar to iron in that it is found in many industrial wastes and occurs in soils as manganic and manganous compounds. Under anaerobic conditions the manganic ion is reduced to soluble nitrate, sulfate, and chloride salts of manganese and is leached, along with iron, into ground and surface waters. Its presence like iron, may indicate domestic or industrial pollution.

Water with high manganese content is undesirable for its taste, colour and tendency to form deposits on cooking utensils.

### Nickel

Nickel in ores and minerals is insoluble but as a salt (nickel ammonium sulphate, nickel nitrate, nickel chloride) is highly soluble.

Electroplating wastes may contain substantial amounts of nickel salts.

Nickel and its salts have generally proven to be non-toxic to man even at very high levels. Contact with nickel salt solutions may result in dermatitis and repeated inhalations of nickel compounds can cause lung cancer. Levels of 0.1 mg/L have been reported to adversely affect plant life.

### Fluoride

Fluorides in high concentrations are not a common constituent of natural surface waters, but may naturally occur in detrimental concentrations in ground waters.

A condition known as "mottled enamel" (dental fluorosis) may occur when the concentration of fluoride ion in drinking water is in excess of 1.0 mg/L; however, small quantities have proven to be beneficial in reducing tooth decay. Excess concentrations affect animal breeding efficiency and may have detrimental effects on some plants.

### Cyanide

Cyanides are likely to occur in effluents from gas works and coke ovens, from the scrubbing of gases produced from blast furnaces, in wastes from the surface cleaning of various metals, and in electroplating processes and other chemical industries.

Cyanide in water is toxic to biological life, the lethal concentration depending on water quality, temperature and type and size of organism.

### Cobalt

Cobalt occurs naturally in the minerals cobaltite, smaltite and erythrite. It is widely used in the manufacture of alloys, the tungsten carbide tool industry and as pigments used in glass staining.

Cobalt is an essential element at trace levels for both animals and plant nutrition. It is known to be one of the main constituents of Vitamin B<sub>12</sub>. Adverse effects due to cobalt are very slight even at high concentrations. No limits have been set on the maximum acceptable concentration for cobalt in domestic water supplies.

## 3. RADIOCHEMICAL ANALYSES

All elements are made up of atoms, each of which consists of a central nucleus surrounded by a number of electrons. Some nuclei are radioactive; they emit excess energy in the form of ionizing radiation as a result of nuclear disintegrations. The three types of ionizing radiations which are of principal interest in environmental studies are referred to as alpha, beta and gamma radiations.

1. Alpha rays are streams of fast moving helium nuclei. These are particles which can travel only a few centimetres in air and can be stopped by a sheet of paper or a layer of skin.
2. Beta rays are streams of fast moving electrons which are very much lighter than helium nuclei. The maximum range of most common beta rays is a few metres in the air or one to two centimetres in the human body.
3. Gamma rays are highly penetrating electromagnetic radiation of the same family as radio waves and x-rays. Like x-rays, gamma mass rays can pass right through the human body.

The number of nuclear disintegrations occurring in a substance per second is a measure of its radioactivity. The unit of radioactivity used in this report is becquerel (Bq). One becquerel equals one nuclear transformation per second and corresponds to approximately 27 picocuries. Radiological half life is the length of time required for one half of the unstable atom to disintegrate or change (i.e. radioactive decay).

Exposure to radiation is characterized by the transfer of energy to molecules of the cells which make up body tissues and organs. This can affect the normal function of the cells, resulting in damage to the tissues and organs. Exposure to the small doses of radiation which might be encountered in the environment will not result in immediate detectable damage; however, long-term effects may result. These effects are in apparently random occurrence of induced cancers and genetic defects in a small proportion of the exposed population. The numbers of effects induced are considered to be directly proportional to the amount of absorbed radiation.

### Gross-alpha

Gross-alpha is a measure of the total radioactivity of all the alpha emitting materials in a sample. Measurements of gross-alpha activity provide useful reference points to enable trends to be detected. However, the results cannot be used to determine radiation dose or

health effects since the short range of alpha particles means that some will not be detected, thereby causing an underestimation of the total activity. Also, the alpha particles may be emissions from a mixture of materials that are radiologically and biologically different.

### Gross-beta

Gross-beta is a measure of the total radiation of all the beta emitting materials in a sample. Measurements of gross-beta activity provide useful reference points to enable trends to be detected but cannot be used to determine radiation dose or health effects.

### Radium-226

Radium-226 is a naturally occurring alpha-particle emitter formed from the decay of uranium-238 and has a radiological half life of 1602 years.

### Uranium-total

Total uranium exists primarily as the isotope uranium-238 with less than 1% occurring as uranium-235. Uranium is a naturally occurring alpha-particle emitter which was formed at the same time as the earth (about  $5 \times 10^9$  years) and is still present in significant quantities due to its extremely long radiological half-life ( $4.5 \times 10^9$  years).

### Cesium-137

Cesium-137 is a beta-particle emitter formed as a fission product in nuclear weapons detonation and atomic reactor operation. Cesium-137 is readily adsorbed and retained by biological systems. Its radiological half life is 30 years.

### Cesium-134

Cesium-134 is a beta-particle emitter also formed as a fission product in nuclear weapons detonation and atomic reactor operation. Cesium-134 is of less importance than Cesium-137 as its radiological half-life is only 72 hours.

### Cobalt-60

Cobalt-60 is primarily formed in atomic reactor operation due to the neutron activation of trace quantities of cobalt-59 found in steel. Insignificant quantities are also formed from nuclear weapons detonation. Cobalt-60 has a radiological half life of 5.3 years and emits both beta and gamma radiation.

### Tritium

Tritium exists fairly uniformly in the environment as a result of natural production by cosmic radiation and residual fallout from nuclear weapons tests. This background level is gradually being increased by the use of nuclear reactors to generate electricity.

Current tritium from the nuclear power industry comprises a small proportion of environmental tritium in comparison with that from nuclear weapons fallout and naturally produced tritium. However, nuclear reactors and fuel-processing plants are localized sources of tritium because of discharges during normal operation. This industry is expected to become the major source of environmental tritium contamination some time in the future if present growth trends continue and nuclear explosion in the atmosphere are not resumed. Tritium is produced in light water nuclear reactors by ternary fission, neutron capture in coolant additives, control rods and plates, and activation of deuterium. About 1% of the tritium in the primary coolant is released in gaseous form to the atmosphere; the remainder is eventually released in liquid waste discharges. Most of the tritium produced in reactors remains in the fuel and is released when the fuel is reprocessed.

Naturally occurring tritium is most abundant in precipitation and lowest in aged water because of its physical decay by beta emission to helium.

### Iodine

Iodine is a chemical oxidant. It disinfects in a manner similar to chlorine. Iodine is the least soluble of all the halogens, hence it is the least likely to be hydrolyzed by water. It also has the lowest oxidation potential; that is, reacting more slowly with organic

compounds than chlorine. Because of this stability, iodine does not react with nitrogenous compounds as does chlorine. Iodine remains effective through a wider range than does chlorine; chlorine becomes less stable at pH of 8 as compared to iodine at pH of 10.

#### 4. SYNTHETIC ORGANIC ANALYSES

The synthetic organic compounds referred to in this section are classified as pesticides and industrial chemicals. These compounds contain linked carbon atoms in their chemical structure and are, for the most part, synthesized from common chemicals. Furthermore they may be subdivided into chemical families of compounds sharing common characteristics. For example, organochlorine compounds (chlorinated hydrocarbons) contain chlorine, hydrogen and carbon in their structure; they have a tendency to accumulate in the fatty tissues of animals and are stable compounds (i.e. persistent).

Until recently, only a few classes of compounds such as drugs, food additives and pesticides were controlled by legislation. For example, the only pesticides which may be offered for sale in Ontario are those which have been registered under the authority of the Pest Control Products Act which is administered by Agriculture Canada. The term pesticide includes insecticides, herbicides and fungicides which are chemical compounds used to control insects, weeds or fungi (i.e. "pests") that attack crops, animals and man. In contrast to the regulation of pesticides, thousands of unregistered synthetic organic chemicals are in daily use as raw materials, products and additives. Very little is known about their possible health and environmental effects because of their sheer number and diversity of use. Many are not hazardous, but the adverse effects already encountered by some have created concern for preventative measures of both known and potentially hazardous substances.

#### Polychlorinated Biphenyls (PCBs)

PCBs are a range of industrial chemicals produced by direct chlorination of biphenyl. The North American products in this family are sold under the name Arochlor. Arochlors are characterized by a four digit number (e.g. Arochlor 1242, Arochlor 1254 of which the last two digits refer to

the weight percentage of chlorine in the products. There are 208 possible compounds which could be formed by this reaction. Each product is a different mixture of up to 100 of these, each with its own unique physical, chemical and biological properties.

The main characteristics of PCBs are their chemical, physical, biological inertness and electrical insulating properties. They have been widely used in transformers, capacitors, as heat exchange fluids, plasticizers, in inks, paint, lubricants, and many other products. Spills and waste disposal practices have resulted in very large inputs of these chemicals to all facets of the environment.

PCBs are lipophylic and thus continuing environmental inputs have led to biological uptake and concentration. Of particular concern are the excessive levels detected in some fish. Levels in water and air to date have not demonstrated a threat to human health, as might arise from fish consumption. PCBs have been shown to be both acutely and chronically toxic, carcinogenic and teratogenic. Limits for human consumption have been set based on tests on monkeys and rats. The present acceptable level of PCBs in fish is 2.0 ppm. However, for protection of the fisheries resource from reproductive failure, 0.1 ppm has been suggested. Long-term use of PCBs, at elevated temperatures, and inefficient incineration of these materials have been shown to produce the highly toxic chlorodibenzofurans, closely related to dioxins.

#### Trichlorophenoxyacetic Acid (2,4,5-T)

2,4,5-T is a chlorophenoxy acid herbicide. Other members of this family include 2,4-D and 2,4,5-TP which were introduced as selective weed killers at the end of World War II. Their uses include weed control in cereal crops, lawns, along roadsides, hydro and railroad rights-of-way and control of aquatic weeds.

The human toxicity of these herbicides is low; effects on farmstock and wildlife from current environmental levels would appear to be negligible and no discernible toxic effects have been reported in fish at levels below 100 mg/L.



However, 2,3,7,8-tetrachlorodibenzodioxin (TCDD), an extremely toxic compound, has been detected in 2,4,5-T formulations as a by-product of its manufacture, thus raising doubts as to the human safety of the use of 2,4,5-T, and the related herbicide 2,4,5-TP (Silvex). A tolerance level of 0.1 ppm 2,3,7,8-TCDD in 2,4,5-T formulation has been set, but the adequacy of the safety factor is still under discussion.

### Pentachlorophenol (PCP)

Pentachlorophenol is used as a herbicide, defoliant, insecticide, fungicide and wood preservative. The salts, esters and ethers of PCP are also effective herbicides.

PCP is considered relatively toxic to wildlife and fish and its presence in water can cause tainting of fish flesh, reducing its palatability. PCP can be harmful to man if inhaled and absorbed through the skin. There is no known antidote to PCP poisoning.

In addition to its inherent toxicity, a further problem is posed by the presence of high chlorinated dioxins, (octachlorodioxin, heptachlorodioxin, hexachlorodioxin) in PCP formulations. Whilst considerably less toxic than 2,3,7,8-TCDD (tetrachlorodibenzodioxin), it has been suggested that these compounds may degrade to 2,3,7,8-TCDD under the influence of sunlight and other environmental conditions.

### STATION IDENTIFIER CODES, ABBREVIATED PARAMETER HEADINGS AND QUALIFYING REMARKS CODES

#### Station Identifier Codes

The station identifier codes which appear in the index and the top right-hand corner of the data pages are numerical descriptions of the sampling station locations and are used primarily for electronic data processing of the water quality data. The eleven digit figure is decoded as follows: the first two digits refer to the terminal basins (see figures 2 and 3), the following four digits refer to the river

basin (each river basin in a terminal basin is assigned a unique number), the next three digits refer to the station number within the river basin and the last two digits refer to the type of sample (e.g. 01-lake sample, 02-stream sample, 82 to 89-composite sample, e.g. 83 - 3 part composite across a station sampling range).

### Distance

The distance in kilometres is measured along the centre line of a watercourse to the sampling station location from the junction of the related terminal stream and terminal basin.

### Abbreviated Headings

BOW	body of water
STN NO	base station number
LAT	latitude
LONG	longitude
UTM	Universal Transverse Mercator Grid
SAMP DTE DY MO YR	sample date; day, month, year
HOUR LMT	hour(s) local mean time (2400 hour clock)
STN DIST FEET	distance from base station (in feet) (not applicable)
STN BRG	bearing of sampling point (deg N) from base station (not applicable)
SAMP DEPTH MTRS	sample depth (in metres)
PJ	project (not applicable)

### Abbreviated Parameter Headings

The alphabetic codes appearing as the parameter headings are a series of unique codes used for computer processing. Each alphabetic code identifies a particular water quality parameter and analytical procedure.

Test Name and Abbreviated Description	Description of Test	Units of Measure
ACDT ACIDITY TOTAL	ACIDITY, TOTAL	MILLIGRAM PER LITRE AS CALCIUM CARBONATE
ALKT ALK TOTAL	ALKALINITY, TOTAL	MILLIGRAM PER LITRE AS CALCIUM CARBONATE
ALUT ALUMINUM UNF. TOT.	ALUMINIUM, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS ALUMINIUM
ASUT ARSENIC UNF. TOT.	ARSENIC, UNFILTERED TOTAL	MILLIGRAM PER LITRE
AS3UR ARSENTE UNF. REAC.	ARSENIC +3 UNFILTERED REAC.	MILLIGRAM PER LITRE AS ARSENIC
AS5UR ARSENATE UNF. REAC.	ARSENIC +5, UNFILTERED REAC.	MILLIGRAM PER LITRE AS ARSENIC
BOD <sub>5</sub> 5 DAY TOT. DEM.	BOD, 5 DAY, TOTAL DEMAND	MILLIGRAM PER LITRE AS OXYGEN
CAUR CALCIUM UNF. REACT.	CALCIUM, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS CALCIUM
CCNAUR CYANIDE AVAIL UNF. REACT.	CYANIDE, AVAILABLE UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS HYDROGEN CYANIDE
CCNFUR FREE UNF. REACT.	CYANIDE, FREE UNFIL. REACTIVE	MILLIGRAM PER LITRE AS HYDROGEN CYANIDE
CCUT CARBON UNF TOT.	CARBON, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS CARBON
CDUT CADMIUM UNF. TOT.	CADMIUM, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS CADMIUM

Test Name and Abbreviated Description	Description of Test	Units of Measure
CLIDUR CHLORIDE UNF. REAC.	CHLORIDE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS CHLORINE
COD CHEM. OX. DEMAND	CHEMICAL OXYGEN DEMAND	MILLIGRAM PER LITRE AS OXYGEN
COLAP COLOUR APPARENT	COLOUR, APPARENT	HAZEN COLOUR UNIT
COLTR COLOUR TRUE	COLOUR, TRUE	HAZEN COLOUR UNIT
COND25 CONDUCT. 25C	CONDUCTIVITY AT 25°C	MICROMHOS/CM (CONDUCTIVITY) AT 25 DEGREES CENTIGRADE
COUT COBALT UNF. TOT.	COBALT, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS COBALT
C060 COBALT 60	COBALT 60	BECQUEREL PER LITRE
CRUT CHROMIUM UNF. TOT.	CHROMIUM, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS CHROMIUM
CS134 CESIUM 134	CESIUM 134	BECQUEREL PER LITRE
CS137 CESIUM 137	CESIUM	BECQUEREL PER LITRE
CUUT COPPER UNF. TOT.	COPPER, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS COPPER
DO DISSOLVED OXYGEN	DISSOLVED OXYGEN	MILLIGRAM PER LITRE AS OXYGEN

Test Name and Abbreviated Description	Description of Test	Units of Measure
DOC CARBON DISSOLVED ORGANIC	CARBON, DISSOLVED ORGANIC	MILLIGRAM PER LITRE AS CARBON
ECMF ESCH IA COLI MF	ESCHERICHIA COLIFORM, MEMBRANE FILTRATIONS TECHNIQUE	COUNTS PER 100 ML
FCMF FECAL COLIFORM MF	FECAL COLIFORM MEMBRANE FILTRATION TECHNIQUE	COUNTS PER 100 ML
FEUT IRON UNF. TOT.	IRON, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS IRON
FFIDUR FLUORIDE UNF. REAC.	FLUORIDE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS FLUORINE
FSMF FECAL STREPCUS MF	FECAL STREPTOCOCCUS, MEMBRANE FILTRATION TECHNIQUE	COUNTS PER 100 ML
FWFLOW STREAM FLOW	STREAMFLOW	CUBIC METRE (1000L) PER SECOND
FWPH PH FIELD	PH, FIELD	NEGATIVE LOGARITHM OF HYDROGEN ION CONCENTRATION
FWSTRC STREAM COND.	STREAM CONDITION	NOT APPLICABLE
FWTEMP WATER TEMP.	TEMPERATURE, WATER	DEGREES CELSIUS

Test Name and Abbreviated Description	Description of Test	Units of Measure
GACF GROSS ALPHA CT. FILTERED	GROSS ALPHA CT., FILTERED	BECQUEREL PER LITRE
GACP GROSS ALPHA CT UNDISSOL.	GROSS ALPHA CT., UNDISSOLVED	BECQUEREL PER LITRE
GBCF GROSS BETA CT. FILTERED	GROSS BETA CT., FILTERED	BECQUEREL PER LITRE
GBCP GROSS BETA CT. UNDISSOL.	GROSS BETA CT., UNDISSOLVED	BECQUEREL PER LITRE
HARDT HARDNESS TOTAL	HARDNESS, TOTAL	MILLIGRAM PER LITRE AS CALCIUM CARBONATE
HGUT MERCURY UNF. TOT.	MERCURY, UNFILTERED TOTAL	MICROGRAM PER LITRE AS MERCURY
HH3 TRITIUM HYDROG-3	TRITIUM, (HYDROGEN 3)	BECQUEREL PER LITRE
II131 IODINE 131	IODINE 131	BECQUEREL PER LITRE
KKUR POTASSIUM UNF. REAC.	POTASSIUM, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS POTASSIUM
MGUR MAGNESIUM, FIL. REAC.	MAGNESIUM, FILTERED REACTIVE	MILLIGRAM PER LITRE AS MAGNESIUM
MNUT MANGANESE, UNF. TOT.	MANGANESE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS MANGANESE

Test Name and Abbreviated Description	Description of Test	Units of Measure
NAUR SODIUM UNF. REAC.	SODIUM, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS SODIUM
NIUT NICKEL UNF. TOT.	NICKEL, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS NICKEL
NNHTFR NH3-N TOTAL FIL. REAC.	AMMONIUM, TOTAL FILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNKI TOTAL N	TOTAL NITROGEN: SUM OF NITRATE NITRITE AND KJELDAHL-NITROGEN	MILLIGRAM PER LITRE AS NITROGEN
NNKUR KJELDAHL ORGANIC UNF. REAC.	KJELDAHL-NITROGEN, ORGANIC UNFILTERED REACTIVE	MILLIGRAM PER LITRE
NNOTFR NO2+NO3N FIL. REACT.	NITRATES, TOTAL FILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNOTUR NO1+NO3N UNF, REAC.	NITRATES, TOTAL UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNO2FR NO2-N FIL. REAC.	NITRITE, FILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNTIFR INORG. N. TOTAL FIL. REAC.	NITROGEN, TOTAL INORGANIC FILTERED REACTIVE	MILLIGRAM PER LITRE
NNO2UR NO2-N UNF. REAC.	NITRITE, UNFILTERED REACTIVE	MILLIGRAMS PER LITRE AS NITROGEN

Test Name and Abbreviated Description	Description of Test	Units of Measure
NN03FR N03-N FILT. REAC.	NITRATE, FILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NN03UR N03-N HNF. REAC.	NITRATE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
NNTKUR K'DAHL N TOTAL UNF. TOT.	NITROGEN, TOTAL KJELDAHL UNFIL. REACTIVE	MILLIGRAM PER LITRE AS NITROGEN
PBUT LEAD UNF. TOT.	LEAD, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS LEAD
pH	pH (-LOG H+CONC), LAB.	NEGATIVE LOGARITHM OF HYDROGEN ION CONCENTRATION
PHNOL PHENOLS UNF-REAC	PHENOLICS, UNFILTERED REACTIVE	MICROGRAM PER LITRE AS PHENOL
PP04FR P04 FIL. REAC.	PHOSPHATE, FILTERED REACTIVE	MILLIGRAM PER LITRE AS PHOSPHORUS
PP04UR P04 UNF. REAC.	PHOSPHATE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS PHOSPHORUS
PPUT PHOSPHOR UNF. TOT.	PHOSPHORUS, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS PHOSPHORUS
PSAMF PSEUDOMN AERUG, MF	PSEUDOMONAS, AERUGINOSA MEMBRANE FILTRATION TECHNIQUE	COUNTS PER 100 ML
P1PCBT PCB TOTAL	POLYCHLORINATED BIPHENOLS, TOTAL	MICROGRAM PER LITRE
P3245T 2,4,5-T	2,4,5-Trichlorophenoxyacetic	MICROGRAM PER LITRE



Test Name and Abbreviated Description	Description of Test	Units of Measure
RA226F RADIUM 226 FIL.	RADIUM-226, FILTERED	BECQUEREL PER LITRE
RA226T RADIUM 226 TOT.	RADIUM-226, TOTAL	BECQUEREL PER LITRE
RSF RESIDUE FILTERED	RESIDUE, FILTERED	MILLIGRAM PER LITRE
RSFRAD RESIDUE FILTERED RADIOLOG	RESIDUE, FILTERED RADIOLOGICAL	MILLIGRAM PER LITRE
RSP RESIDUE PARTIC.	RESIDUE, PARTICULATE	MILLIGRAM PER LITRE
RSPRAD RESIDUE PARTIC. RADIOLOG	RESIDUE, PARTICULATE RADIOLOGICAL	MILLIGRAM PER LITRE
RST RESIDUE TOTAL	RESIDUE, TOTAL	MILLIGRAM PER LITRE
SAMPLE NUMBER	SAMPLE NUMBER, FIELD	NOT APPLICABLE
S103UR SILICATE UNF. REAC.	SILICATES, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS SILICON
SOLEXT SOLVENT EXTRACT.	SOLVENT EXTRACTABLES	MILLIGRAM PER LITRE
SSIDUR SULPHIDE UNF. REAC.	SULPHIDE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE
SS04UR SULPHATE UNF. REAC.	SULPHATE, UNFILTERED REACTIVE	MILLIGRAM PER LITRE AS SULPHATE

Test Name and Abbreviated Description	Description of Test	Units of Measure
TCMF COLIFORM TOTAL MF	COLIFORM, TOTAL MEMBRANE FILTRATION TECHNIQUE	COUNTS PER 100 ML
TCMFBK COLIFORM TOTAL MF BCKGRD	COLIFORM, TOTAL MEMBRANE FILTRATION TECHNIQUE BACKGROUND	COUNTS PER 100 ML
TURB TURB'ITY	TURBIDITY	FORMAZIN TURBIDITY UNIT
UU238 URANIUM 238	URANIUM 238	MILLIGRAM PER LITRE
X3PCPH PENTACHL PHENOL	PENTACHLOROPHENOL	NANORGRAMS PEC LITRE
ZNUT ZINC UNF. TOT.	ZINC, UNFILTERED TOTAL	MILLIGRAM PER LITRE AS ZINC

## OTHER ABBREVIATIONS

ARITH MEAN	arithmetic mean
AVE.	avenue
AVG OR GEOM MN	arithmetic mean or geometric mean (denoted by *)
BLVD.	boulevard
BR.	branch, bridge or brook
CORP.	corporation
CAN.	Canadian
C.N.R.	Canadian National Railway
CO.	county or company
CONC.	concession
C.P.R.	Canadian Pacific Railway
CR.	Creek
DR.	drive
FT.	feet
GEOM MEAN	geometric mean
HWY.	highway
JNT.	junction
L.	left
MG	milligram(s)
MG/L or mg/L	milligrams per litre
ML	millilitre(s)
N.	north
NG/L	nanogram(s) per litre
NO/OF SAMPLES	number of samples
PT.	part or point
Q.E.W.	Queen Elizabeth Way
R.	river or right
RD.	road
R.R.	railroad
RW.	railway
S.	south
STD DEV	standard deviation
S.T.P.	sewage treatment plant
TWP.	township
UG/L	micrograms per litre
W.P.C.P.	water pollution control plant
WW.	water-works

An "Exponent" is used to move the decimal point to the right when the result is greater than 7 digits or to the left if the result is measured to more than three decimal places.

EXPONENT = + 4 multiple result by 10,000

= + 3 " " " 1,000

= + 2 " " " 100

= + 1 " " " 10

= - 1 divide result by 10

= - 2 " " " 100

= - 3 " " " 1,000

= - 4 " " " 10,000

## ANALYTICAL TECHNIQUES USED TO MEASURE WATER QUALITY

### Microbiological Parameters

### Analytical Technique

Total Coliforms	Membrane Filtration
Fecal Coliforms	Membrane Filtration
Fecal Streptococcus	Membrane Filtration
Pseudomonas Aeruginosa	Membrane Filtration
Background Count	Membrane Filtration

### Chemical and Physical Parameters

### Analytical Technique

Alkalinity	Auto* fixed endpoint titration
Ammonia-N (filtered total)	Auto modified Berthelot reaction
Arsenic	Flameless AAS**; colourimetry
Cadmium	AAS
Calcium	AAS; EDTA titrimetric
Carbon	Auto oxidation, colourimetry
Chloride	Auto potentiometric titration; Auto FeCNS
Chromium	AAS; colourimetry
Conductivity	25°C thermostated conductivity meter
Copper	AAS
Iron (total)	AAS; Auto TPTZ colourimetry
Lead	AAS
Magnesium	AAS; calculation from hardness, Ca
Manganese	AAS; Auto formal doxine colourimetry
Mercury	Flameless AAS
Nickel	AAS
Nitrate + Nitrite-N (filtered)	Auto hydrazine reduction-diazotization
Kjeldahl-N	Digest, Auto modified Berthelot reaction
Phosphate-P (filtered reactive)	Auto molybdenum blue-ascorbic acid
pH	Potentiometric-glass electrode
Phenolics-reactive	Auto distillation-4AAP
Phosphorus-total	Digest, Auto molybdenum blue-ascorbic acid
Phosphorus-filtered total	Digest, Auto molybdenum blue-ascorbic acid
Potassium	AAS

Selenium  
Silicates-reactive  
Sodium  
Solids-suspended  
Sulfate  
Turbidity  
Zinc

Fluorimetry  
Auto molybdenum blue-ascorbic acid  
AAS  
Gravimetric  
Auto MTB colourimetry; Ion Chromatography  
Nephelometry, formazin standard  
AAS

#### Radiochemical Parameters

Gross alpha

Nuclear disintegrations count from  
evaporated residues

Gross beta

Nuclear disintegrations count from  
evaporated residues

Radium-226

Dieminatation technique

Uranium-total

Fluorometric technique

Cesium-137

Gamma spectrometry

Cesium-134

Gamma spectrometry

Cobalt-60

Gamma spectrometry

#### Synthetic Organic Parameters

PCB

Solvent extraction, gas chromatography

2,4,5-T

Solvent extraction, gas chromatography

PCP

Solvent extraction, gas chromatography

\* Automated instrumentation

\*\* Atomic Absorption Spectrophotometry

## GLOSSARY OF TERMS

### Arithmetic Mean

- The nth quotient of the summation of n observations. The equation for the arithmetic mean ( $\bar{X}$ ) can be expressed as:

$$\bar{X} = \frac{X_1 + X_2 + X_3 + \dots + X_n}{n}$$

### Detection Limit

- The amount of analyte required to be present to ensure that when it is 'absent' it will not be reported as 'present'.

### Geometric Mean

- The nth root of the product of n observations. The equation for the geometric mean ( $G_x$ ) can be expressed as:

$$G_x = \sqrt[n]{X_1 \times X_2 \times \dots \times X_n}$$

or

$$G_x = \text{antilog} \frac{(\log X_1 + \log X_2 + \dots + \log X_n)}{n}$$

### Standard Deviation

- A measure of variability or dispersion. For a set of n observations,  $X_i$  ;  $i = 1, \dots, n$ . The standard deviation is given as:

$$S = \sqrt{\Sigma(x_i - \bar{x})^2 / (n - 1)}$$

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LL/rmg

00366-05A/RIVSS/88-2



# ABBREVIATIONS AND REMARKS USED ON REPORTS

## ABBREVIATIONS USED:

BTM GRAB	BOTTOM GRAB SAMPLE
CORE	BOTTOM CORE SAMPLE
CNT LOW	BACTERIA COUNT UNACCEPTABLE
DATA AVL	DATA NOT STORED IN THIS SYSTEM BUT IS AVAILABLE
DC	DEPTH COMPOSITE SAMPLE
DD	DAY
ET	END TIME
EXP	PRECIPITATING AT EXPOSURE (FOR PRECIP. SAMPLES)
GC	GAUGE DEPTH (FOR PRECIP. SAMPLES)
I	DEPTH INTERVAL (IN METERS) WHEN ASSOCIATED WITH DC TIME INTERVAL (IN HOURS) WHEN ASSOCIATED WITH TC
ID	INITIAL DATE (SET-UP DATE FOR PRECIP. SAMPLES)
IT	INITIAL TIME (SET-UP TIME FOR PRECIP. SAMPLES)
LAT	LATITUDE
LONG	LONGITUDE
LMT	LOCAL MEAN TIME
L01	LOW VOLUME SEQUENTIAL SAMPLE
L02	LOW VOLUME NUTECH SAMPLE
MM	MONTH
N	NUMBER OF SAMPLES (USED FOR DC, TC AND CORE SAMPLES)
DRY	PRECIPITATION SAMPLE (DRY ONLY)
WET	PRECIPITATION SAMPLE (WET ONLY)
BULK	PRECIPITATION SAMPLE (BULK)
GRND	PRECIPITATION SAMPLE (ON GROUND SNOW COURSE)
REM	PRECIPITATING AT REMOVAL (FOR PC SAMPLES 0,1,2,3)
SD	START DEPTH
ST	START TIME
SED CORE	SEDIMENT CORE SAMPLE (DEPTH FROM AND TO MEASURED IN CM)
SED GRAB	SEDIMENT GRAB SAMPLE (DEPTH FROM AND TO MEASURED IN CM)
WLE	WATER LAYER - WHOLE LAKE COMPOSITE
EPI	WATER LAYER - EPILIMNION ZONE
MET	WATER LAYER - METALIMNION ZONE
HYP	WATER LAYER - HYPOLIMNION ZONE
EUP	WATER LAYER - EUPHOTIC ZONE
GEN	WATER LAYER - GENERAL LAYER
TC	TIME COMPOSITE SAMPLE
TNTC	BACTERIA TOO NUMEROUS TO COUNT
V	VOLUME WHEN ASSOCIATED WITH L01 AND L02 SAMPLES
YY	YEAR

## NOTE:

ONE SAMPLE DESIGNATES DATA ASSOCIATED WITH A LOCATION AT ONE POINT IN TIME

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
<	ACTUAL RESULT < THAN REPORTED VALUE	PE
<=>	APPROXIMATE RESULT	
<E	NO RESP.: (EXCESS DIL'N) MIN. VALUE	PE
<N	NON-DETECTED	PE
<R	DETECT LIMIT REPORT: VALUE < LIMIT	PE
<S	TRACE RESP.: < THAN VALUE REPORTED	PE
<T	LOW VALUE TENTATIVE: FOR INFO ONLY	PT
<W	0 VALUE IS MIN. MEASURABLE AMOUNT	PT
IAA	NO DATA: ANAL. REQ ABSENT-AMBIGUOUS	
IAD	NO DATA: ANOMALOUS DATA WITHDRAWN	
IAI	ADDITIONAL INFORMATION AVAIL AT LAB	
IAL	NO DATA: AL NOT DONE, PH > 5.5	
IAM	NO DATA: PH > 7	
IAR	SEE ATTACHED REPT: NO NUMERIC VALUE	
IAW	NO DATA: ANALYSIS WITHDRAWN	
IBC	NO DATA: BACKGRND COLOUR INTERFERES	
IBL	NO DATA: UNRELIABLE BLANK	
IBN	NO DATA: BACKGND TO NUMEROUS TO CNT	
IBT	NO DATA: SAMPLE BROKEN IN TRANSIT	
ICA	NO DATA: CARBONATE NOT DONE, PH>5.0	
ICC	COURT CASE: RESULTS REPT. ELSEWHERE	
ICR	COULD NOT PERFORM CONFIRMING REANAL	
ICS	NO DATA: CONTAMINATION SUSPECTED	
ICU	TYPICAL/TOTAL COLONY CNT UNSUITABLE	
IDD	SAMP. SUBM. AS DUP. FOUND TO DIFFER	
IDI	NO DATA: SAMPLE DISCARDED IN ERROR	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
EF	NO DATA: LABORATORY EQUIP. FAILURE	
EP	NO DATA: EXCESS. PRESERVATIVE USED	
FC	NO DATA: FOIL CAP CONTAMINATED SAMP	
FF	NO DATA: FIELD FILTERED SAMP REQUOD	
GL	NO DATA: GREEN LABEL REQ ON BOTTLE	
HB	HIGH BACKGND ABSORBANCE IN EXTRACT	
HI	RERUN: NO VALUE,OFFSCALE HIGH	
IC	NO DATA: IMPROPER CONTAINER	
IF	NO DATA: INVALID FILTER-NO AIR VOL	
IL	NO DATA: SAMPLE INCORRECTLY LABELED	
IM	INTERNAL LAB MEMO; FOR LAB USE ONLY	
IP	NO DATA: INSUFFICIENT PRESERVATIVE	
IR	INSUFFICIENT SAMP FOR REPEAT ANALY	
IS	NO DATA: INSUFFICIENT SAMPLE	
IV	NO DATA: INVALID SAMPLE	
LA	SAMPLE SPOILED IN LAB ACCIDENT	
LC	NO DATA: LAB CAPACITY EXCEEDED	
LD	NO DATA: TEST QUEUED:SAMP DISCARDED	
LO	RERUN: NO VALUE,OFFSCALE LOW	
LP	NO DATA: PERISHABLE TEST QUEUE LATE	
MS	SAMP TOO COMPLEX REFERRED TO MS GRP	
NA	NO AUTHORIZATION TO PERFORM ANALY	
NE	SUBM SHEET MISPLACED - NOT ENTERED	
NF	INFORMATION NOT REC'D FROM SUBMITOR	
NI	NO DATA: SAMP NOT STORED IN ICE	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
NP	NO DATA: NO APPROP. PROCEDURE AVAIL	
NR	NO DATA: SAMPLE NOT RECEIVED AT LAB	
NS	NO DATA: NOT EQUIP. TO ANALY SAFELY	
NT	NO DATA: NO TIME RECORDED	
OC	NO DATA: ORGANIC CARBON CONTENT>17%	
OF	SLUDGE SAMP DISCARD:BOTTLE OVERFILL	
OP	NO DATA: OBSCURED PLATE	
OS	NO DATA: OPTIONAL SAMPLE	
OT	SAMPLE OVERTITRATD:NO REPEAT POSBLE	
PE	PROCEDURE ERROR: SAMP NOW DISCARDED	
PH	SAMP PH OUTSIDE VALID RANGE	
PM	NO DATA: PIECE MISSING	
PR	NO DATA: PRESERVATIVE REQUIRED	
PU	NO DATA:VSAMPLE PRESUMED UNSTERILE	
QU	NO DATA: QUALITY CONTROL UNACCEPT.	
RC	RESULT CHANGED: REPORT REVISED	
RD	SEE ATTCH. REPT:NO NUM VALUE:DIOXIN	
RE	NO DATA: SAMP CONTAINER RECV. EMPTY	
RI	SEE ATTCH. REPT:NO NUM VALUE:ITCS	
RL	RESULT FORTHCOMING FROM RAD. LAB	
RM	SEE ATTCH. REPT:NO NUM VALUE:MICRO	
RN	SEE ATTCH. REPT FOR NUMERIC RESULT	
RO	SEE ATTCH. REPT:NO NUM VALUE:OTCS	
RP	SEE ATTCH. REPT:NO NUM VALUE:PEST	
RR	NO DATA: RERUN HAS BEEN INITIATED	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
RT	SAMPLE NOT REFRIGERATED IN TRANSIT	
RW	SEE ATTCH. REPT:NO NUM VALUE:WQS	
SD	NO DATA: SAMPLE DECOMPOSED	
SE	SAMPLE EXAMINED: SEE OTHER RESULTS	
SF	NO DATA: SAMPLE RECEIVED FROZEN	
SL	NO DATA: SAMP ARRIVED LATE FOR ANAL	
SM	NO DATA: SAMPLE MISSING:LOST IN LAB	
SS	SEPARATE SAMP, PROPER. PRESERVE REQ	
TE	TURB LIMIT OF APP COLOR TEST EXCEED	
TF	NO DATA: TORN FILTER	
TH	TURB EXCEEDED RANGE OF INSTRUMENT	
TN	NO DATA: TOO NUMEROUS TO COUNT	
TU	NO DATA: ANALY TEMPORARILY UNAVAIL.	
TW	NO DATA: TARE WT. > LOADED WT.	
TX	NO DATA: TIME LIMIT EXPIRED	
U	UNSUITABLE FOR ANALYSIS	
UB	BROKEN SAMPLE CONTAINER	
UD	INSUFFICIENT SAMPLE	
UE	NO DATA: UNCORRECTABLE ERROR	
UI	NO DATA: UNDETERMINED INTERFERENCE	
UR	NO DATA: UNPRESERVED SAMP REQUIRED	
VE	INSUFFICIENT SAMP:VISUAL EST;RSP<15	
VU	NO DATA: VALUES USED IN CACL UNVAIL	
WP	NO DATA: WRONG PRESERVATIVE USED	
12	NO DATA: SAMPLE AGE EXCEEDS 12HR	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
I72	NO DATA: SAMPLE AGE EXCEEDS 72HR	
!BT	NO DATA: SAMPLE BROKEN IN TRANSIT	
>	ACTUAL RESULT > THAN REPORTED VALUE	PE
>SF	ACTUAL MASS > SIZED FIBRE MASS	PE
A>	APROX RSLT:EXCEED NORMAL RNGE LIMIT	
AAI	ADDITIONAL INFO AVAILABLE FROM LAB	
AID	APPROX VALUE: INSUFFICIENT DILUTION	
AIP	ANALYSIS IN PROGRESS	
ALO	TOO ORGANIC;4:1 SOL'N:SOIL RATIO	
APD	ANALYSIS PERFORMED AT DORSET LAB	
BPS	RESULTS BIASED LOW DUE TO LONG STOR	
C	BACKGROUND COUNT TO NUMEROUS	
CIC	POSSIBLE CONTAM DUE TO IMPROPER CAP	
CHS	IDENTITY CONFIRMED BY GC/MASS SPEC	
CRO	CALCULATED RESULT ONLY	
DCC	SAMPLE KNOWN TO CONTAIN CARCINOGENS	
DCN	SAMPLE KNOWN TO CONTAIN CYANIDE	
DCP	DANGEROUS CONSTITUENTS PRESENT	
DUP	DUPLICATE	
E	ESTIMATED OR COMPUTED VALUE STORED	
EBR	NO RESULT: BOTTLE RECEIVED EMPTY	
EDC	EXCEEDS 1978 DRINK WATER QUAL CRIT	
EV	ESTIMATED VALUE - TARE WT UNVAIL.	
FAN	FRACTION ANALY: NON-AQUEOUS PHASE	
FAP	FRACTION ANALY: PARTICULATE ONLY	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
FBA	LAB STAFF:FILT.WHOLE SAMP BEFORE AN	
HRF	SUSPECTED HIGH RESULT:IRON PRECIP	
LPI	LABELS PROBABLY INTERCHANGED	
M	MANUALLY ANALYSED	
NAF	NOT ALL REQUIRED TESTS FOUND	
NED	NOT ENOUGH DATA	
NNN	NOTE: CORRECTED VALUE	
NSS	NO SUITABLE SAMPLE	
NTR	NO TIME RECORDED: ANAYL. PERFORMED	
PFS	TEST PERFORMED ON PREV FROZEN SAMP	
PHA	PH ADJUSTED BEFORE ANALYSIS	
PLD	PASSIVE LOADING	
PNF	TEST PERFORMED ON NON-FROZEN SAMPLE	
PNS	TEST PERFORMED ON UNPRESERVE SAMPLE	
PPS	TEST PERFORMED ON PRESEVERED SAMPLE	
PS2	PCB RESEM.MIX AROCLR 1242 1245 1260	
P20	PCB RESEMBLED MIX AROCLOR 1242 1260	
P21	PCB RESEMBLED AROCLOR 1221	
P24	RESEMBLED MIX: AROCLOR 1242 AN 1254	
P28	RESEMBLED MIX: AROCLOR 1242 AN 1248	
P40	RESEMBLED MIX: AROCLOR 1254 AN 1260	
P42	PCB RESEMBLED AROCLOR 1242	
P48	PCB RESEMBLED AROCLOR 1248	
P54	PCB RESEMBLED AROCLOR 1254	
P60	PCB RESEMBLED AROCLOR 1260	

# ABBREVIATIONS AND REMARKS USED ON REPORTS

INDIVIDUAL TEST VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

REMARK	MEANING OF REMARK	COMMENT CODE
P84	RESEMBLED MIX: AROCLOR 1248 AN 1254	
R24	REPEAT: 24HR BETWEEN SAMP AND ANAL	
R48	REPEAT: 48HR BETWEEN SAMP AND ANAL	
R72	REPEAT: 72HR BETWEEN SAMP AND ANAL	
SD	SAMP SUBM AS DUPLIC FOUND TO DIFFER	
SIL	SAMP INCORRECTLY LABELLED	
SPH	SATURATED PASTE PH REPT:HIGH ORGAN.	
SPL	SEVERAL PEAKS,LARGE,NOT PRIORITY	
SPS	SEVERAL PEAKS,SMALL,NOT PRIORITY	
STA	SAMP TOO OLD FOR RE-ANALYSIS	
STC	SAMP TOO COMPLEX FOR THIS METHOD	
TAF	TRACE AMOUNT FOUND	
U	UNRELIABLE RESULT	
URD	RESULT MAY BE LOW: UNDISOLVE PART.	
WSB	WARNING-HEAVY SILT IN SAMP BIAS RES	
WSD	WRONG SAMP DESCRIPTION ON BOTTLE	
WST	WET SAMP MASS USED:RESLT REPT MG/KG	
X1	DILUTD BY 10 DETECT LINT 10X NORM	
X2	DILUTD BY 100 DETECT LINT 100X NORM	
X3	DILUTD BY 1000 DECT.LINT 1000X NORM	
24P	P-A BOTTLE POSITIVE AFTER 24 HOURS	
48P	P-A BOTTLE POSITIVE AFTER 48 HOURS	
72P	P-A BOTTLE POSITIVE AFTER 72 HOURS	
96P	P-A BOTTLE POSITIVE AFTER 96 HOURS	
99P	P-A BOTTLE POSITIVE AFTER 120 HOURS	



ABBREVIATIONS AND REMARKS USED ON REPORTS

COMPUTED VALUES MAY BE QUALIFIED BY ONE OF THE FOLLOWING REMARKS:

<A      VALUE WITH A REMARK WHICH HAS A  
         COMMENT CODE OF PT (AS ABOVE) USED IN  
         COMPUTATIONS

NOTE: VALUES WITH COMMENT CODE OF PE  
      ARE NOT USED IN COMPUTATIONS

REMARK CODES APPEAR TO THE RIGHT OF THE VALUE I.E. 435.56<T

## 1983 WATER QUALITY DATA REGION 1

2

B.O.W./ SITE: POTTAWATOMI RIVER  
 SAMPLE POINT: AT 14TH STREET BRIDGE OMEN SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0015-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: POTTAWATOMI RIVER

STORET CODE: 02  
 002  
 2040

LAT: 44 34 25.98				LONG: 080 57 34.91				U T M: 17 0503200.0 4935400.0 4				REGION: 01		DISTANCE: 1.609	
*INTERIM TEST-NAME:		FMSADP	FGPROJ	ACDT	ALKT	BOD5	CAUR	CLIDUR	COLAP	COND25	CUUT				
				ACIDITY	ALK	BOD	CALCIUM	CHLORIDE							
SAMPLE	DATE	SAMPLE	SAMPLE	PROJECT	TOTAL	TOT.DEM.	UNF.REAC	UNF.REAC	COLOUR	CONDUCT.	COPPER				
YYMMDD	HOUR	NUMBER	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	APPARENT	25C	UNF.TOT.				
	LMT		M	CODE	AS CAC03	AS CAC03	AS O	AS CA	HZU	UMHO/CM	MG/L				
										AT 25 C	AS CU				
830124	1445	36208	0.30	0101		250.0				610.0	0.0100				
830228	1650	36223	0.30	0101		237.0			12.000	465.0	0.0100				
830328	1330	36233	0.30	0101		223.0			19.000	460.0	0.3500				
830426	1500	36248	0.30	0101		249.0			13.000	491.0	0.5100				
830526	0945	36263	0.30	0101		242.0			11.000	470.0	0.3200				
830627	1400	36278	0.30	0101		268.0			17.000	436.0	0.0100<				
830725	1335	36293	0.30	0101		246.0			19.000	515.0	0.0100<				
830822	1355	36308	0.30	0101		237.0			24.500	520.0	0.0100<				
831024	1605	36334	0.30	0101		244.0			19.500	540.0					
831025	1405	50383	0.30	0101	0.000	271.0	0.52	76.000	17.000	500.0					
831128	1330	36352	0.30	0101		221.0			14.500	488.0	0.005				
MAXIMUM			0.30		0	271.0	0.52	76.000	45.000	54.000	610.0	0.5100			
ARITH MEAN			0.30		0.000	244.4	0.52	76.000	19.227	54.000	499.5	0.201			
GEOM MEAN						243.9			17.771		497.6				
MINIMUM			0.30		0.000	221.0	0.52	76.000	11.000	54.000	436.0	0.005			
STD DEV (GEOM *)						15.6			9.398		47.3				
# SAMP IN STATISTICS			11		1	11	1	1	11	1	11	6			
% SAMP (EXCLUDED)												33			
*INTERIM TEST-NAME:		DO	FCMF	FEUT	FSMF	FMSTRC	FMTEMP	HARDT	KKUR	MGUR	MMUT				
			FECAL	IRON	FECAL										
SAMPLE	DATE	DISOLVED	COLIFORM	UNF.TOT.	STREPCUS		WATER	HARDNESS	POTASSIM	MAGNESIM	MANGANSE				
YYMMDD	HOUR	OXYGEN	MF	MG/L	MF	STREAM	TEMP	TOTAL	UNF.REAC	FI..REAC	UNF.TOT.				
	LMT	MG/L	CNT	AS FE	CNT	COND.	DEG.C	MG/L	MG/L	MG/L	MG/L				
		AS O	/100ML		/100ML			AS CAC03	AS K	AS MG	AS MN				
830124	1445	36208	4<	1.4700	184	4	0.5								
830228	1650	36223	12.5	4	0.3100	8	5.0								
830328	1330	36233	13.0	48	0.8200	12	3.0								
830426	1500	36248	11.5	4<	0.3000	4<	14.0								
830526	0945	36263	11.0	64	0.3800	40	17.0								
830627	1400	36278	12.0	288	0.1600	328	17.5								
830725	1335	36293	9.0	48	0.1100	56	23.0								
830822	1355	36308	5.5	308	0.1800	580	20.0								
831024	1605	36334				6	10.0								
831025	1405	50383	12.0	16	0.1000	16	11.0	298.000	1.90	23.200	0.410				
831128	1330	36352	11.0			6	3.0								

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

2

B.O.W./ SITE: POTTAWATOMI RIVER  
 SAMPLE POINT: AT 14TH STREET BRIDGE OWEN SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0015-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: POTTAWATOMI RIVER

STORET CODE: 02  
 002  
 2040

LAT: 44 34 25.98 LONG: 080 57 34.91

U T M: 17 0503200.0 4935400.0 4

REGION: 01

DISTANCE: 1.609

*INTERIM TEST-NAME:		DO	FCMF FECAL COLIFORM	FEUT IRON UNF.TOT.	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	HARDT	KKUR	MGUR	MNUT
SAMPLE DATE	HR	DISOLVED OXYGEN	MF CNT	MG/L AS FE	MF CNT	STREAM COND.	WATER TEMP DEG.C	HARDNESS TOTAL MG/L AS CAC03	POTASSIM UNF.REAC MG/L AS K	MAGNESIM FIL.REAC MG/L AS MG	MANGANSE UNF.TOT. MG/L AS MN
YYMMDD	LHT	AS O	/100ML		/100ML						
		MAXIMUM	13.0	308	1.4700		23.0	288.000	1.90	23.800	0.010
		ARITH MEAN	10.8	111	0.4256		11.3	288.000	1.90	23.800	0.010
		GEOM MEAN	10.5		0.2877		7.6				
		MINIMUM	5.5	4	0.1000		0.5	288.000	1.90	23.800	0.010
		STD DEV (GEOM *)	2.3		0.4492		7.7				
		* SAMP IN STATISTICS	9	7	9		11	1	1	1	1
		% SAMP (EXCLUDED)		22							
*INTERIM TEST-NAME:		NAUR	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE	HR	SODIUM UNF.REAC	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		PHENOLS UNF-REAC	FIL.REAC	UNF.TOT.
YYMMDD	LHT	MG/L AS NA	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	UG/L PHENOL	MG/L AS P	MG/L AS P
830124	1445	36208	0.005	0.004	1.470	0.790	0.030<	8.21	1.000	0.004	0.068
830228	1650	36223	0.005<	0.002	0.900	0.270	0.030<	8.37	1.000	0.001	0.008
830328	1330	36233	0.015	0.005	0.880	0.540	0.030<	8.24	1.000	0.013	0.045
830426	1500	36248	0.025	0.006	1.140	0.490	0.030<	8.44	1.500	0.008	0.021
830526	0945	36263	0.020	0.005	0.720	0.630	0.030<	8.40	1.000	0.004	0.106
830627	1400	36278	0.050	0.013	1.210	0.710	0.030<	8.38	3.000	0.008	0.044
830725	1335	36293	0.010	0.002	0.210	0.370	0.030<	8.43	1.500	0.008	0.015
830822	1355	36308	0.005	0.003	0.830	0.350	0.030<	8.42	5.000	0.002	0.027
831024	1605	36334	0.005<	0.002	0.790	1.030		8.45		0.001<	0.013
831025	1405	50383	0.025	0.003	0.800	0.870		8.52	1.000<	0.110	0.126
831128	1330	36352	0.005<	0.002	0.940	0.600	0.003<	8.20	4.000	0.002	0.011
		MAXIMUM	9.400	0.050	0.013	1.470	1.030	8.52	5.000	0.110	0.126
		ARITH MEAN	9.400	0.019	0.004	0.899	0.605	8.37	2.111	0.016	0.044
		GEOM MEAN			0.004	0.825	0.562	8.37			0.030
		MINIMUM	9.400	0.005	0.002	0.210	0.270	8.20	1.000	0.001	0.008
		STD DEV (GEOM *)			0.003	0.319	0.234	0.11			0.040
		* SAMP IN STATISTICS	1	8	11	11	11	11	9	10	11
		% SAMP (EXCLUDED)		27					10	9	

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

3

B.O.W./ SITE: POTTAWATOMI RIVER  
 SAMPLE POINT: AT 14TH STREET BRIDGE OWEN SOUND  
 STATION TYPE: RIVER

STATION ID: 03-0015-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: POTTAWATOMI RIVER

STORET CODE: 02  
 002  
 2040

LAT: 44 34 25.98 LONG: 080 57 34.91 U T M: 17 0503200.0 4935400.0 4 REGION: 01 DISTANCE: 1.609

*=INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L	RST RESIDUE TOTAL MG/L	SI03UR SILICATE UNF.REAC MG/L AS SI	SS04UR SULPHATE UNF.REAC MG/L AS SO4	TCHF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER									
830124 1445	36208		61.30						33.00	0.0300
830228 1650	36223		11.3						6.40	0.0200
830328 1330	36233		26.4						21.00	0.0100
830426 1500	36248		7.9						3.10	0.0100<
830526 0945	36263		5.4						4.80	0.0100<
830627 1400	36278		6.3						4.80	0.0100<
830725 1335	36293		4.1						3.70	0.0100<
830822 1355	36308		3.2						5.00	0.0100<
831024 1605	36334		0.7						1.40	
831025 1405	50383	4<	0.10<	355.20	2.800	17.000	80AID	1900	1.28	
831128 1330	36352		1.7						2.10	0.001
MAXIMUM			61.30	355.20	2.800	17.000	80	1900	33.00	0.0300
ARITH MEAN			12.8	355.20	2.800	17.000	80	1900	7.87	0.015
GEOM MEAN									4.65	
MINIMUM			0.7	355.20	2.800	17.000	80	1900	1.28	0.001
STD DEV (GEOM *)									9.96	
# SAMP IN STATISTICS			10	1	1	1	1	1	11	4
% SAMP (EXCLUDED)			9							55

## 1983 WATER QUALITY DATA REGION 1

4

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT CONCESSION 18 ABOVE INGLIS FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02FB007

STATION ID: 03-0016-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 002  
 2050

LAT: 44 31 21.20 LONG: 080 55 53.11 U T M: 17 0505450.0 4929700.0 4 REGION: 01 DISTANCE: 7.403

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	CLIDUR	COND25	CUUT	FCMF FECAL COLIFORM	FEUT	FSMF FECAL STREPCUS
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ARSENIC UNF.TOT. MG/L AS AS	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	STREPCUS MG/L CNT /100ML
830124	1510	36209	0.30	0101	251.0		9.500	505.0	0.0100	4	4
830228	1715	36224	0.30	0101				0.2500	4<	0.0500	4<
830328	1245	36234	0.30	0101	242.0		9.500	466.0	0.0100	4<	4
830426	1530	36249	0.30	0101	252.0		8.500	490.0		4<	4<
830526	0850	36264	0.30	0101	248.0		8.000	475.0	0.0100<	48	16
830627	1430	36279	0.30	0101	259.0		9.500	496.0	0.1300	228	168
830725	1350	36294	0.30	0101	256.0		10.500	498.0	0.0100<	68	12
830822	1410	36309	0.30	0101	257.0		10.000	495.0	0.1800	68	20
831004	0830	36320	0.30	0101	254.0	0.001<	12.000	520.0	0.002		0.220
831024	1625	36335	0.30	0101	255.0	0.001<	13.000	535.0	0.008		0.180
831128	1400	36353	0.30	0101	234.0		10.500	488.0			
	MAXIMUM		0.30		259.0		13.000	535.0	0.2500	228	168
	ARITH MEAN		0.30		250.8		10.100	496.8	0.084	83	37
	GEOM MEAN				250.7		10.003	496.4			0.137
	MINIMUM		0.30		234.0		8.000	466.0	0.002	4	0.0500
	STD DEV (GEOM *)				7.7		1.506	20.0			0.096
	* SAMP IN STATISTICS	11			10		10	10	7	5	6
	% SAMP (EXCLUDED)								22	37	25

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAKL N TOTAL	PBUT	PH	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH
830124	1510	36209	3.080	6	2.5	0.020<	0.015	0.003	1.090	0.030<	7.88	
830228	1715	36224	4.170	6	4.0	0.040				0.030<		
830328	1245	36234	3.310	6	2.0	0.020<	0.015	0.005	0.820	0.030<	8.12	
830426	1530	36249	2.220	6	12.0	0.020<	0.025	0.006	0.870	0.030<	8.23	
830526	0850	36264	3.540	6	15.0	0.020<	0.020	0.005	0.460	0.030<	8.06	
830627	1430	36279	1.080	6	19.5	0.020	0.045	0.011	0.740	0.030<	8.16	
830725	1350	36294	0.664	6	23.0	0.020<	0.015	0.003	1.120	0.030<	8.41	
830822	1410	36309	0.811	6	20.0	0.020	0.020	0.008	0.610	0.030<	8.18	
831004	0830	36320	0.892	6	16.0	0.002<	0.035	0.006	0.570	0.003<	8.05	
831024	1625	36335	1.110	6	9.0	0.002	0.005<	0.004	0.620	0.003<	8.04	
831128	1400	36353	2.150	6	2.0		0.010	0.001	0.620	0.370	8.03	

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

5

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT CONCESSION 18 ABOVE INGLIS FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02FB007

STATION ID: 03-0016-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 002  
 2050

LAT: 44 31 21.20 LONG: 080 55 53.11 U T M: 17 0505450.0 4929700.0 4 REGION: 01 DISTANCE: 7.403

*=INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N	NN02FR	NN03FR	NNTKUR K'DAHL N	PBUT	PH
		STREAM FLOW		WATER	NICKEL	TOTAL	NO2-N	NO3-N	TOTAL	LEAD	
SAMPLE DATE HOUR	SAMPLE NUMBER	M3 /S	STREAM COND.	TEMP DEG.C	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH

MAXIMUM		4.170		23.0	0.290	0.045	0.011	1.120	0.530		8.41
ARITH MEAN		2.093		11.4	0.088	0.022	0.005	0.752	0.384		8.12
GEOM MEAN		1.729		8.1			0.004	0.724	0.376		8.11
MINIMUM		0.664		2.0	0.002	0.010	0.001	0.460	0.270		7.88
STD DEV (GEOM *)		1.265		7.9			0.003	0.222	0.085		0.14
# SAMP IN STATISTICS		11		11	4	9	10	10	10		10
% SAMP (EXCLUDED)					60	10					

*=INTERIM TEST-NAME:		PHNOL PHENOLS	PP04FR PO4	PPUT PHOSPHOR	RSP	TURB	ZNUT ZINC
SAMPLE DATE HOUR	SAMPLE NUMBER	UNF-REAC UG/L	FIL.REAC MG/L	UNF.TOT. MG/L	RESIDUE PARTIC. MG/L	TURB'ITY FTU	UNF.TOT. MG/L AS ZN
YYMMDD LMT	NUMBER	PHENOL	AS P	AS P			

830124	1510	36209	1.000<	0.006	0.009	1.50	2.00	0.0100<
830228	1715	36224						0.0100<
830328	1245	36234	1.000	0.004	0.009	1.9	1.46	0.0100<
830426	1530	36249	1.000	0.003	0.011	2.9	1.79	0.0100<
830526	0850	36264	1.000	0.001	0.024	7.4	5.10	0.0100<
830627	1430	36279	1.000	0.143	0.161	9.6	6.70	0.0200
830725	1350	36294	1.500	0.007	0.074	6.5	3.90	0.0100<
830822	1410	36309	3.000	0.022	0.047	5.1	4.50	0.0100<
831004	0830	36320		0.004	0.021	10.4	3.20	0.005
831024	1625	36335		0.001<	0.017	5.5	3.20	0.008
831128	1400	36353	1.000<	0.002	0.010	2.3	1.80	

MAXIMUM		3.000	0.143	0.161	10.4	6.70	0.0200
ARITH MEAN		1.417	0.021	0.038	5.3	3.36	0.011
GEOM MEAN				0.023	4.4	2.99	
MINIMUM		1.000	0.001	0.009	1.50	1.46	0.005
STD DEV (GEOM *)				0.048	3.2	1.71	
# SAMP IN STATISTICS		6	9	10	10	10	3
% SAMP (EXCLUDED)		25	10				70

## 1983 WATER QUALITY DATA REGION 1

6

B.O.W./ SITE: TELFER CREEK

SAMPLE POINT: AT THOMPSON MEMORIAL FOOTBRIDGE LEITH

STATION TYPE: RIVER FLOW GAUGE MOE 02FB101

STATION ID: 03-0017-002-02

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE HURON

TERM STREAM: TELFER CREEK

STORET CODE: 02

002

2060

LAT: 44 37 23.20

LONG: 080 52 30.75

U T M: 17 0509900.0 4940875.0 4

REGION: 01

DISTANCE: 0.483

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	ASUT	CCNAUR CYANIDE	CDUT	CLIDUR	COND25	CRUT	CUUT
SAMPLE DATE	HOUR				ALK TOTAL	ARSENIC UNF.TOT.	AVAIL UNF.REAC	CADMIUM UNF.TOT.	CHLORIDE UNF.REAC	CONDUCT. 25C	CHROMIUM UNF.TOT.	COPPER UNF.TOT.
YYMMDD	LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	MG/L AS CAC03	MG/L AS AS	MG/L AS HCN	MG/L AS CD	MG/L AS CL-	UMHO/CM AT 25 C	MG/L AS CR	MG/L AS CU
830124	1350	36207	0.30	0101	254.0			0.0020<	14.500	525.0	0.0200<	0.0100
830228	1630	36222	0.30	0101	243.0	0.001<		0.0020<	12.500	480.0	0.0200	0.0100
830328	1230	36232	0.30	0101	251.0	0.001<		0.0020<	14.500	515.0	0.0200<	0.0100<
830426	1425	36247	0.30	0101	242.0	0.001<		0.0020<	10.000	480.0	0.0200<	0.0100<
830526	0920	36262	0.30	0101	258.0	0.001<		0.0020<	10.000	505.0	0.0200<	0.0100<
830627	1345	36277	0.30	0101	220.0	0.001<		0.0020<	9.000	441.0	0.0200<	0.0100<
830725	1105	36292	0.30	0101	202.0	0.001<		0.0020<	9.500	408.0	0.0200<	0.0100<
830822	1330	36307	0.30	0101	204.0	0.001<		0.0020<	9.000	410.0	0.0200<	0.0100<
831004	0920	36321	0.30	0101	217.0	0.001<	0.001<W	0.0002<	20.000	525.0	0.001	0.005
831025	0845	36336	0.30	0101	251.0	0.001<	0.001<W	0.0002<	20.500	570.0	0.002	0.008
831128	1300	36351	0.30	0101	252.0	0.001<		0.0003	14.000	530.0	0.001	0.007
MAXIMUM			0.30		258.0		0.001	0.0003	20.500	570.0	0.0200	0.0100
ARITH MEAN			0.30		235.8		0.001<A	0.0003	13.045	489.9	0.006	0.008
GEOM MEAN					234.9		0.001<A		12.497	487.3		
MINIMUM			0.30		202.0		0.001	0.0003	9.000	408.0	0.001	0.005
STD DEV (GEOM *)					21.0		0.000<A		4.162	52.0		
# SAMP IN STATISTICS			11		11		2	1	11	11	4	5
% SAMP (EXCLUDED)								90			63	54

*INTERIM TEST-NAME:		DO	FCHF FECAL COLIFORM	FEUT	FSMF FECAL STREPCUS	FWSTRC	FWTEHP	NNHTFR NH3-N TOTAL	NN02FR	NN03FR	NNTKUR K'DAHL N TOTAL	
SAMPLE DATE HOUR	SAMPLE YMMDD LHT	DISOLVED OXYGEN MG/L AS O	MF CNT /100ML	IRON UNF. TOT. MG/L AS FE	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	UNF. REAC MG/L AS N	
830124	1350	36207	20.0	272	0.3400	232	4	0.5	0.030	0.002	1.400	0.310
830228	1630	36222	13.0	110	0.1900	10AID	6	3.0	0.005<	0.002	1.480	0.250
830328	1230	36232	12.5	60	0.4500	600>	6	3.0	0.115	0.021	1.160	0.550
830426	1425	36247	12.5	10<	0.1100	10<	6	10.0	0.025	0.003	1.300	0.240
*830526	0920	36262	11.0	88	0.1300	128	6	12.5	0.010	0.002	0.760	0.280
830627	1345	36277	10.0	500	0.1700	600>	6	22.0	0.065	0.019	0.830	0.380
830725	1105	36292	8.5	60AID	0.0900	50AID	6	23.5	0.010	0.004	0.370	0.230
830822	1330	36307	7.5	220	0.6100	324	6	22.5	0.015	0.004	0.180	0.270
831004	0920	36321	9.2				6	16.0	0.005	0.006	0.780	0.330
831025	0845	36336			0.067		6	8.0	0.005<	0.002	0.970	0.370
831128	1300	36351	12.5		0.065		6	3.0	0.005	0.002	1.520	0.280

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

7

B.O.W./ SITE: TELFER CREEK  
 SAMPLE POINT: AT THOMPSON MEMORIAL FOOTBRIDGE LEITH  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FB101

STATION ID: 03-0017-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: TELFER CREEK

STORET CODE: 02  
 002  
 2060

LAT: 44 37 23.20 LONG: 080 52 30.75

U T M: 17 0509900.0 4940875.0 4

REGION: 01

DISTANCE: 0.483

*=INTERIM TEST-NAME:			DO	FCMF FECAL COLIFORM	FEUT IRON	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL
SAMPLE DATE	HR	SAMPLE NUMBER	DISOLVED OXYGEN MG/L AS O	CNT /100ML	UNF. TOT. MG/L AS FE	CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	UNF. REAC MG/L AS N
MAXIMUM			20.0	500	0.6100	324		23.5	0.115	0.021	1.520	0.550
ARITH MEAN			11.7	187	0.222	149		11.3	0.031	0.006	0.977	0.317
GEOM MEAN			11.3		0.167			7.2		0.004	0.842	0.307
MINIMUM			7.5	60	0.065	10		0.5	0.005	0.002	0.180	0.230
STD DEV (GEOM *)			3.5		0.185			8.6		0.007	0.445	0.092
# SAMP IN STATISTICS			10	7	10	5	11	9	11	11	11	
% SAMP (EXCLUDED)				12		37		18				

*=INTERIM TEST-NAME:			PBUT	PH	PHNOL	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	P1PCBT	P3245T	RSP	TCMF COLIFORM TOTAL
SAMPLE DATE	HR	SAMPLE NUMBER	LEAD UNF. TOT. MG/L AS PB		PHENOLS UNF-REAC UG/L PHENOL	P04 FIL. REAC MG/L AS P	PHOSPHOR UNF. TOT. MG/L AS P	HF CNT /100ML	PCB TOTAL NG/L	2,4,5-T NG/L	RESIDUE PARTIC. MG/L	MF CNT /100ML
830124	1350	36207	0.030<	8.13	1.000<	0.005	0.019	4	20<W		10.1	730
830228	1630	36222	0.030<	8.43	1.000<	0.002	0.014	4<	20<W		10.8	110
830328	1230	36232	0.030<	8.19	1.500	0.029	0.076	32	20<W		18.3	6700C
830426	1425	36247	0.030<	8.34	3.000	0.006	0.011	4<	20<W		4.2	70AID
830526	0920	36262	0.030<	8.36	1.000<	0.002	0.011	4<	20<W		2.2	390C
830627	1345	36277	0.030<	8.24	1.000<	0.009	0.014	4	20<W		6.9	1500C
830725	1105	36292	0.030<	8.48	2.500	0.005	0.005	4<	20<W		3.4	110C
830822	1330	36307	0.030<	8.35	2.500	0.002	0.023	4<	20<W	50<W	9.8	3000C
831004	0920	36321	0.005	8.25		0.001	0.011		20<W		6.6	
831025	0845	36336	0.003<	8.24		0.001	0.005		20<W		1.8	
831128	1300	36351	0.003<	8.24	1.000<	0.004	0.010		20<W		3.3	
MAXIMUM			0.005	8.48	3.000	0.029	0.076	32	20	50	18.3	6700
ARITH MEAN			0.005	8.30	2.375	0.006	0.018	13	20<A	50<A	7.0	1576
GEOM MEAN				8.29		0.004	0.013		20<A		5.6	540
MINIMUM			0.005	8.13	1.500	0.001	0.005	4	20	50	1.8	70
STD DEV (GEOM *)			0.11			0.008	0.020		0<A		4.9	5*
# SAMP IN STATISTICS			1	11	4	11	11	3	11	1	11	8
% SAMP (EXCLUDED)			90		55			62				

(CONTD)



## 1983 WATER QUALITY DATA REGION 1

8

B.O.W./ SITE: TELFER CREEK

STATION ID: 03-0017-002-02

SAMPLE POINT: AT THOMPSON MEMORIAL FOOTBRIDGE LEITH

STATION TYPE: RIVER FLOW GAUGE MOE 02FB101

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE HURON

TERM STREAM: TELFER CREEK

STORET CODE: 02

002

2060

LAT: 44 37 23.20 LONG: 080 52 30.75

U T M: 17 0509900.0 4940875.0 4 REGION: 01

DISTANCE: 0.483

*INTERIM TEST-NAME:		TCMFBK	TURB	X3245	ZNUT
		COLIFORM		2,4,5	ZINC
		TOTAL MF		TRCHLORO	UNF.TOT.
SAMPLE		BCKGRD		PHENOL	MG/L
DATE	TIME	CNT	TURB'ITY		AS ZN
YYMMDD	LMT	NUMBER	FTU	NG/L	
830124	1350	36207	800	7.00	50<W 0.0100<
830228	1630	36222	170	3.80	50<W 0.0100<
830328	1230	36232	25000	9.70	50<W 0.0100<
830426	1425	36247	960	1.45	50<W 0.0100<
830526	0920	36262	3400	1.87	50<W 0.0100<
830627	1345	36277	30000	4.50	50<W 0.0100<
830725	1105	36292	7800	2.30	50<W 0.0100<
830822	1330	36307	32000	9.20	0.0100
831004	0920	36321	4.00	50<W	0.001 <
831025	0845	36336	1.60	50<W	0.001
831128	1300	36351	2.10	50<W	0.002
MAXIMUM		32000	9.70	50	0.0100
ARITH MEAN		12516	4.32	50<A	0.004
GEOM MEAN		4120	3.48	50<A	
MINIMUM		170	1.45	50	0.001
STD DEV (GEOM %)		7*	3.02	0<A	
# SAMP IN STATISTICS		8	11	10	3
% SAMP (EXCLUDED)					72

## 1983 WATER QUALITY DATA REGION 1

9

B.O.W./ SITE: BIGHEAD RIVER  
 SAMPLE POINT: AT CONC ROAD 8 AND 9 SOUTH OF OXMEAD  
 STATION TYPE: RIVER

STATION ID: 03-0030-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BIGHEAD RIVER

STORET CODE: 02  
 002  
 2190

LAT: 44 34 32.16 LONG: 080 38 54.97 U T M: 17 0527900.0 4935650.0 4 REGION: 01 DISTANCE: 12.713

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	FCMF FECAL COLIFORM	FEUT	FSMF FECAL STREPCUS	FWSTRC
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	COLIFORM MF CNT /100ML	IRON UNF.TOT. MG/L AS FE	STREPCUS MF CNT /100ML	STREAM COND.
830228 1545	36221	0.30	0101	244.0	5.000	460.0	0.0100	4	0.1500	8	6
830328 1145	36231	0.30	0101	246.0	5.000	461.0	0.0100	8	0.1400	68	6
830426 1245	36246	0.30	0101	248.0	4.000	472.0	1.2500		0.1200		6
830525 1408	36261	0.30	0101	244.0	4.000	460.0	0.0100	92	0.2200	112	6
830627 1230	36276	0.30	0101	234.0	3.500	440.0	0.2900	176	0.2500	192	6
830725 1220	36291	0.30	0101	214.0	4.000	405.0	0.0100<	40	0.3000	36	6
830822 1250	36306	0.30	0101	215.0	4.000	410.0	0.0100<	244	0.4400	216	6
831004 0955	36322	0.30	0101	221.0	6.000	438.0	0.002		0.360		6
831025 0925	36337	0.30	0101	242.0	7.000	485.0	0.007		0.170		6
831128 1205	36350	0.30	0101	224.0	7.500	469.0	0.130		0.110		6
MAXIMUM		0.30		248.0	7.500	485.0	1.2500	244	0.4400	216	
ARITH MEAN		0.30		233.2	5.000	450.0	0.214	94	0.226	105	
GEOM MEAN				232.8	4.840	449.3		41	0.204	67	
MINIMUM		0.30		214.0	3.500	405.0	0.002	4	0.110	8	
STD DEV (GEOM *)				13.4	1.394	26.4		5*	0.111	3*	
# SAMP IN STATISTICS		10		10	10	10	8	6	10	6	
% SAMP (EXCLUDED)							20				

*INTERIM TEST-NAME:		FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PHNOL PHENOLS	PP04FR P04 FIL.REAC	PPUT PHOSPHOR
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	UNF.REAC UG/L PHENOL	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
830228 1545	36221	5.0	0.005<	0.002	1.160	0.240	0.030<	8.26	1.000<	0.003	0.012
830328 1145	36231	1.5	0.430	0.011	1.130	0.830	0.030<	8.15	1.000	0.101	0.136
830426 1245	36246	10.0					0.030<	8.26	1.000		
830525 1408	36261	15.5	0.280	0.014	0.680	0.680	0.030<	8.26	1.500	0.008	0.029
830627 1230	36276	23.0	0.155	0.038	0.540	0.560	0.030<	8.08	1.500	0.008	0.031
830725 1220	36291	24.0	0.030	0.004	0.370	0.420	0.030<	8.44	1.000	0.015	0.016
830822 1250	36306	23.0	0.030	0.007	0.420	0.370	0.030<	8.32	1.000	0.102	0.120
831004 0955	36322	17.0	0.035	0.003	0.230	0.460	0.003<	8.29		0.001	0.024
831025 0925	36337	7.5	0.005<	0.002	0.430	0.460	0.010	8.30		0.001	0.012
831128 1205	36350	2.5	0.005	0.002	1.150	0.300	0.003<	8.23	1.000	0.018	0.025

(CONT'D.)

## 1983 WATER QUALITY DATA REGION 1

10

B.O.W./ SITE: BIGHEAD RIVER

SAMPLE POINT: AT CONC ROAD 8 AND 9 SOUTH OF OXHEAD

STATION TYPE: RIVER

STATION ID: 03-0030-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BIGHEAD RIVER

STORET CODE: 02  
 002  
 2190

LAT: 44 34 32.16 LONG: 080 38 54.97

U T M: 17 0527900.0 4935650.0 4

REGION: 01

DISTANCE: 12.713

*=INTERIM TEST-NAME:		FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB		MG/L AS P	MG/L AS P	MG/L AS P
MAXIMUM		24.0	0.430	0.038	1.160	0.830	0.010	8.44	1.500	0.102	0.136
ARITH MEAN		12.9	0.138	0.009	0.679	0.480	0.010	8.26	1.143	0.029	0.045
GEOM MEAN		9.3		0.005	0.589	0.449		8.26		0.009	0.030
MINIMUM		1.5	0.005	0.002	0.230	0.240	0.010	8.08	1.000	0.001	0.012
STD DEV (GEOM *)		8.7		0.012	0.371	0.186		0.10		0.042	0.048
# SAMP IN STATISTICS		10	7	9	9	9	1	10	7	9	9
% SAMP (EXCLUDED)			22				90		12		

*=INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TURB TURB*ITY FTU	ZNUT ZINC UNF.TOT.	
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER CNT /100ML	MG/L		MG/L AS ZN	
830228	1545	36221	4<	6.1	3.50	0.0100<
830328	1145	36231	4<	5.2	3.80	0.0100<
830426	1245	36246		2.5	2.00	0.0300
830525	1408	36261	4<	5.9	3.50	0.0100<
830627	1230	36276	4<	8.5	5.30	0.0100<
830725	1220	36291	4<	9.6	7.60	0.0100
830822	1250	36306	4<	10.2	8.80	0.0100<
831004	0955	36322		13.3	8.50	0.011
831025	0925	36337		5.2	3.80	0.005
831128	1205	36350		3.6	4.30	0.004
MAXIMUM			13.3	8.80	0.0300	
ARITH MEAN			7.0	5.11	0.012	
GEOM MEAN			6.3	4.64		
MINIMUM			2.5	2.00	0.004	
STD DEV (GEOM *)			3.3	2.36		
# SAMP IN STATISTICS			10	10	5	
% SAMP (EXCLUDED)					50	

## 1983 WATER QUALITY DATA REGION 1

11

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT RAILROAD BRIDGE THORNBURY  
 STATION TYPE: RIVER

STATION ID: 03-0036-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 33 45.61 LONG: 080 27 04.00 U T M: 17 0543590.0 4934300.0 4 REGION: 01 DISTANCE: 0.322

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FCMF	FEUT	FSMF	
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF. TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	FECAL COLIFORM MF CNT /100ML	IRON UNF. TOT. MG/L AS FE	FECAL STREPCUS MF CNT /100ML
830124	1150	36205	0.30	0101	246.0	8.500	476.0		13.0	28		48
830228	1450	36220	0.30	0101	241.0	6.500	457.0	0.0300	13.0	4<	0.0200	8
830328	1100	36230	0.30	0101	229.0	7.000	440.0		13.0	28		36
830426	1145	36245	0.30	0101	225.0	5.000	438.0	0.1800	11.0		0.0800	
830525	1325	36260	0.30	0101	222.0	5.500	420.0		10.5	100		52
830627	1120	36275	0.30	0101	211.0	5.500	400.0	0.0100<	9.0	108	0.0600	44
830725	1110	36290	0.30	0101	204.0	7.000	397.0		6.5	32		4
830822	1140	36305	0.30	0101	188.0	5.500	360.0		6.0	204		172
831004	1025	36323	0.30	0101	190.0	7.000	367.0	0.001	9.8		0.440	
831025	0955	36338	0.30	0101	211.0	8.500	421.0	0.008			0.220	
831128	1110	36349	0.30	0101	200.0	7.000	406.0		11.5			
MAXIMUM		0.30			246.0	8.500	476.0	0.1800	13.0	204	0.440	172
ARITH MEAN		0.30			215.2	6.636	416.5	0.055	10.3	83	0.164	52
GEOM MEAN					214.4	6.541	415.2		10.0		0.099	30
MINIMUM		0.30			188.0	5.000	360.0	0.001	6.0	28	0.0200	4
STD DEV (GEOM *)					19.3	1.185	35.5		2.6		0.172	4*
# SAMP IN STATISTICS		11			11	11	11	4	10	6	5	7
% SAMP (EXCLUDED)							20			14		

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL	PP04FR	
SAMPLE DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	NH3-N TOTAL FIL. REAC MG/L AS N	NO2-N FIL. REAC MG/L AS N	NO3-N FIL. REAC MG/L AS N	UNF. REAC MG/L AS N	LEAD UNF. TOT. MG/L AS PB	PHENOLS UNF. REAC UG/L PHENOL	P04 FIL. REAC MG/L AS P	
830124	1150	36205	6	1.5	0.010	0.004	0.960	0.260		8.04	1.000<	0.002
830228	1450	36220	6	2.0	0.005<	0.003	1.060	0.260	0.030<	8.27	1.000	0.002
830328	1100	36230	6	4.0	0.010	0.001	0.820	0.270		8.28	1.000<	0.002
830426	1145	36245	6	9.0	0.015	0.003	0.730	0.340	0.030<	8.17	1.000	0.870
830525	1325	36260	6	14.5	0.015	0.004	0.260	0.430		8.34	1.000<	0.003
830627	1120	36275	6	23.0	0.060	0.008	0.330	0.600	0.030<	8.32	2.000	0.053
830725	1110	36290	6	21.5	0.065	0.005	0.150	0.500		8.12	2.000	0.013
830822	1140	36305	6	22.0	0.040	0.006	0.150	0.310		8.41	2.000	0.005
831004	1025	36323	6	17.0	0.015	0.002	0.170	0.410	0.003<	8.33		0.002
831025	0955	36338	6	7.5	0.005	0.002	0.270	0.370	0.005	8.30		0.002
831128	1110	36349	6	2.0	0.005	0.002	0.450	0.290		8.16	1.000	0.001

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

12

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT RAILROAD BRIDGE THORNBURY  
 STATION TYPE: RIVER

STATION ID: 03-0036-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 33 45.61 LONG: 080 27 04.00 U T M: 17 0543590.0 4934300.0 4 REGION: 01 DISTANCE: 0.322

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF.TOT.	PP04FR PO4 FIL.REAC
SAMPLE DATE	HR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	PHENOL UG/L PHENOL	PO4 MG/L AS P
MAXIMUM				23.0	0.065	0.008	1.060	0.600	0.005	8.41	0.870
ARITH MEAN				11.3	0.024	0.004	0.486	0.367	0.005	8.25	0.087
GEOM MEAN				7.5		0.003	0.381	0.354		8.25	0.006
MINIMUM				1.5	0.005	0.001	0.150	0.260	0.005	8.04	0.001
STD DEV (GEOM *)				8.6		0.002	0.343	0.110		0.11	0.260
# SAMP IN STATISTICS				11	10	11	11	11	1	11	11
% SAMP (EXCLUDED)					9				80	33	

*INTERIM TEST-NAME:		PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT.
SAMPLE DATE	HR	SAMPLE NUMBER	MG/L AS P	MG/L	MG/L AS ZN
830124	1150	36205	0.009	1.4	3.80
830228	1450	36220	0.013	8.4	4.50
830328	1100	36230	0.013	7.3	6.30
830426	1145	36245	0.560	6.5	6.60
830525	1325	36260	0.041	19.8	13.60
830627	1120	36275	0.088	25.4	22.00
830725	1110	36290	0.092	37.4	31.00
830822	1140	36305	0.032	16.5	14.40
831004	1025	36323	0.022	14.4	9.80
831025	0955	36338	0.015	4.6	5.90
831128	1110	36349	0.012	5.8	5.30
MAXIMUM		0.560	37.4	31.00	0.012
ARITH MEAN		0.082	13.4	11.20	0.009
GEOM MEAN		0.032	9.6	8.94	
MINIMUM		0.009	1.4	3.80	0.006
STD DEV (GEOM *)		0.161	10.8	8.57	
# SAMP IN STATISTICS		11	11	11	3
% SAMP (EXCLUDED)					40

## 1983 WATER QUALITY DATA REGION 1

13

B.O.W./ SITE: BOYNE RIVER  
 SAMPLE POINT: 1ST.BRIDGE DNSTR.FROM HWY.10 FLESHERTON  
 STATION TYPE: RIVER

STATION ID: 03-0036-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 16 47.79				LONG: 080 32 44.63				U T M: 17 0536250.0 4902850.0 4				REGION: 01		DISTANCE: 44.417	
*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FECAL	FECAL	FWSTRC	FWTEMP	NNHTFR	NNO2FR			
SAMPLE DATE	YEAR	MONTH	DAY	DEPTH	PROJECT	UNF.REAC	CONDUCT.	COLIFORM	STREPCUS	WATER	FIL.REAC	FIL.REAC			
YYMMDD	LMT	NUMBER	M	SUB-PROJ	CODE	MG/L	UMHO/CM	MF	MF	TEMP	MG/L	MG/L			
				AS CL-		AS CL-	AT 25 C	CNT	CNT	DEG.C	AS N	AS N			
								/100ML	/100ML	COND.					
830124	1030	36201	0.30	0101	25.500	510.0	16	12	6	3.5	0.015	0.003			
830228	1330	36216	0.30	0101	15.000	478.0	52	4	6	6.0	0.005<	0.003			
830328	0950	36226	0.30	0101	22.000	480.0	320	76	6	4.0	0.015	0.006			
830426	1025	36241	0.30	0101	13.000	445.0	20AID	12	6	7.0	0.005<	0.003			
830525	1155	36256	0.30	0101	12.000	425.0	36	72	6	12.0	0.020	0.002			
830627	1020	36271	0.30	0101	18.500	510.0	272	340	6	19.5	0.010	0.005			
830725	0950	36286	0.30	0101	19.500	510.0	136	40	6	15.0	0.005	0.003			
830822	0950	36301	0.30	0101	15.000	410.0	600>	600>	6	17.5	0.020	0.004			
831004	1157	36327	0.30	0101	15.500	443.0			6	15.0	0.005<	0.005			
831025	1125	36343	0.30	0101	16.000	468.0			6	7.0	0.005	0.001			
831128	0945	36345	0.30	0101	13.000	434.0			6	2.5	0.005	0.002			
MAXIMUM			0.30		25.500	510.0	320	340		19.5	0.020	0.006			
ARITH MEAN			0.30		16.818	464.8	122	79		9.9	0.012	0.003			
GEOM MEAN					16.388	463.5				8.1		0.003			
MINIMUM			0.30		12.000	410.0	16	4		2.5	0.005	0.001			
STD DEV (GEOM *)					4.167	36.0				6.1		0.002			
# SAMP IN STATISTICS			11		11	11	7	7	11	8	11				
% SAMP (EXCLUDED)							12	12		27					
*=INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP							
			K'DAHL N				PSEUDOMN								
		N03-N	TOTAL		PO4	PHOSPHOR	AERUG.								
SAMPLE DATE	YEAR	MONTH	DAY	FIL.REAC	UNF.REAC	FIL.REAC	UNF.TOT.	RESIDUE							
YYMMDD	LMT	NUMBER	MG/L	MG/L	MG/L	MG/L	MG/L	PARTIC.							
			AS N	AS N	AS P	AS P	CNT	MG/L							
							/100ML								
830124	1030	36201	0.570	0.270	8.16	0.003	0.009	4<	0.8						
830228	1330	36216	0.600	0.240	8.41	0.001	0.010	4<	3.6						
830328	0950	36226	0.500	0.290	8.25	0.002	0.019	4<	5.0						
830426	1025	36241	0.490	0.260	8.31	0.002	0.012	4<	3.9						
830525	1155	36256	0.260	0.360	8.36	0.052	0.071	4<	5.5						
830627	1020	36271	0.640	0.360	8.27	0.001<	0.015	4<	4.7						
830725	0950	36286	0.600	0.280	8.35	0.006	0.008	4<	4.1						
830822	0950	36301	0.370	0.470	8.17	0.011	0.042	68	10.0						
831004	1157	36327	0.510	0.300	8.31	0.002	0.016		5.5						
831025	1125	36343	0.480	0.280	8.26	0.001	0.010		3.6						
831128	0945	36345	0.320	0.310	8.20	0.002	0.010		4.1						

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

14

B.O.W./ SITE: BOYNE RIVER  
 SAMPLE POINT: 1ST.BRIDGE DNSTR.FROM HWY.10 FLESHERTON  
 STATION TYPE: RIVER

STATION ID: 03-0036-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 16 47.79 LONG: 080 32 44.63 U T M: 17 0536250.0 4902850.0 4 REGION: 01 DISTANCE: 44.417

*-INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN	
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	
SAMPLE		MG/L	MG/L		MG/L	MG/L	MF	RESIDUE
DATE	HR	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.
YYMMDD	LMT	NUMBER					/100HL	MG/L
MAXIMUM		0.640	0.470	8.41	0.052	0.071	68	10.0
ARITH MEAN		0.485	0.311	8.28	0.008	0.020	68	4.6
GEOM MEAN		0.469	0.306	8.28		0.015		4.1
MINIMUM		0.260	0.240	8.16	0.001	0.008	68	0.8
STD DEV (GEOM *)		0.122	0.065	0.08		0.019		2.2
# SAMP IN STATISTICS		11	11	11	10	11	1	11
% SAMP (EXCLUDED)					9		87	

## 1983 WATER QUALITY DATA REGION 1

15

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT GREY COUNTY ROAD NO 2 FEVERSHAM  
 STATION TYPE: RIVER

STATION ID: 03-0036-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 20 16.44 LONG: 080 22 43.55

U T M: 17 0549525.0 4909375.0 4

REGION: 01

DISTANCE: 56.969

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N TOTAL	
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COLIFORM MF CNT /100ML	STREPCUS MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830124	1047	36202	0.30	0101	4.000	482.0			6	3.5	0.005	0.003
830228	1400	36217	0.30	0101	4.500	485.0	40	4<	6	5.0	0.005<	0.003
830328	1015	36227	0.30	0101	3.500	475.0	20	4<	6	5.0	0.010	0.003
830426	1045	36242	0.30	0101	4.000	368.0	8	8	6	7.0	0.005	0.005
830525	1250	36257	0.30	0101	4.000	456.0			6	12.0	0.015	0.007
830627	1045	36272	0.30	0101	3.500	486.0	272	260	6	17.0	0.015	0.006
830725	1030	36287	0.30	0101	4.000	498.0	56	28	6	14.5	0.002	0.005
830822	1040	36302	0.30	0101	4.000	405.0	600>	600>	6	15.2	0.055	0.013
831004	1105	36325	0.30	0101	5.000	480.0			6	14.0	0.010	0.004
831025	1040	36340	0.30	0101	5.500	486.0			6	6.5	0.005	0.002
831128	1030	36346	0.30	0101	7.000	414.0			6	1.5	0.005	0.001
MAXIMUM		0.30			7.000	498.0	272	260		17.0	0.055	0.013
ARITH MEAN		0.30			4.455	457.7	79	99		9.2	0.013	0.005
GEOM MEAN					4.362	455.8				7.4		0.004
MINIMUM		0.30			3.500	368.0	8	8		1.5	0.002	0.001
STD DEV (GEOM *)					1.036	42.5				5.4		0.003
# SAMP IN STATISTICS		11			11	11	5	3		11	10	11
% SAMP (EXCLUDED)							16	50			9	

*INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAHF PSEUDOMN AERUG.	RSP	TURB
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830124	1047	36202	1.730	0.220	8.07	0.008	0.012	0.1<	
830228	1400	36217	1.690	0.200	8.26	0.004	0.009	4<	2.6
830328	1015	36227	1.600	0.230	8.16	0.004	0.012	4<	1.7
830426	1045	36242	1.580	0.270	8.17	0.007	0.013	4<	3.6
830525	1250	36257	1.140	0.400	8.16	0.015	0.033		4.4
830627	1045	36272	1.390	0.350	8.17	0.008	0.017	4<	3.6
830725	1030	36287	1.480	0.290	8.21	0.014	0.017	4<	2.3
830822	1040	36302	1.010	0.360	8.11	0.020	0.040	24	4.5
831004	1105	36325	1.470	0.260	8.17	0.008	0.015		3.4
831025	1040	36340	1.460	0.200	8.17	0.004	0.012		0.7
831128	1030	36346	0.720	0.330	7.99	0.011	0.023		3.8
									1.52

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

16

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT GREY COUNTY ROAD NO 2 FEVERSHAM  
 STATION TYPE: RIVER

STATION ID: 03-0036-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 20 16.44 LONG: 080 22 43.55 U T M: 17 0549525.0 4909375.0 4 REGION: 01 DISTANCE: 56.969

*INTERIM TEST-NAME:		NO3-N	NH4-N	PH	PO4-P	PPUT	PSAMF	RSP	TURB
		K'DAHL N	TOTAL		PO4	PHOSPHOR	PSEUDOMN		
		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE	TURB'ITY
SAMPLE DATE	YMMDD LMT	MG/L	MG/L	PH	MG/L	MG/L	HF	PARTIC.	FTU
		AS N	AS N		AS P	AS P	CNT /100ML	MG/L	
MAXIMUM		1.730	0.400	8.26	0.020	0.040	24	4.5	1.52
ARITH MEAN		1.388	0.283	8.15	0.009	0.018	24	3.1	1.52
GEOM MEAN		1.350	0.275	8.15	0.008	0.017			
MINIMUM		0.720	0.200	7.99	0.004	0.009	24	0.7	1.52
STD DEV (GEOM *)		0.310	0.069	0.07	0.005	0.010			
# SAMP IN STATISTICS	11	11	11	11	11	11	1	10	1
% SAMP (EXCLUDED)							83	9	

## 1983 WATER QUALITY DATA REGION 1

17

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.10 OSPREY TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 03-0036-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 21 13.79 LONG: 080 22 10.19 U T M: 17 0550250.0 4911150.0 4 REGION: 01 DISTANCE: 59.061

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR
						FECAL	FECAL			NH3-N	
						COLIFORM	STREPCUS			TOTAL	
						HF	HF			FIL.REAC	FIL.REAC
						CNT	CNT			MG/L	MG/L
						/100ML	/100ML			AS N	AS N
SAMPLE DATE	YMMDD LMT	SAMPLE HOUR	SAMPLE DEPTH	PROJECT SUB-PROJ	CHLORIDE UNF.REAC	CONDUCT. 25C		STREAM COND.	WATER TEMP		
			M	CODE	MG/L AS CL-	UMHO/CM AT 25 C			DEG.C		
830124	1111	36204	0.30	0101	2.000	485.0	4<	6	4.0	0.010	0.007
830228	1420	36219	0.30	0101	2.500	485.0	4<	6	5.0	0.005<	0.006
830328	1020	36229	0.30	0101	2.000	470.0	8	6	5.0	0.015	0.002
830426	1100	36244	0.30	0101	2.000	425.0	4<	6	7.0	0.005<	0.009
830525	1300	36259	0.30	0101	2.500	456.0	36	6	13.0	0.005<	0.009
830627	1050	36274	0.30	0101	2.500	476.0	252	6	17.0	0.005	0.004
830725	1040	36289	0.30	0101	2.000	486.0	64	6	14.0	0.005	0.002
830822	1045	36304	0.30	0101	2.500	390.0	472	6	16.5	0.005	0.002
831004	1055	36324	0.30	0101	3.500	474.0		6	14.0	0.005<	0.001
831025	1048	36341	0.30	0101	3.000	488.0		6	6.5	0.005<	0.001
831128	1040	36348	0.30	0101	4.000	475.0		6	1.5	0.005	0.002
MAXIMUM		0.30			4.000	488.0	472		17.0	0.015	0.009
ARITH MEAN		0.30			2.591	464.5	166		9.4	0.007	0.004
GEOM MEAN					2.522	463.6			7.6		0.003
MINIMUM		0.30			2.000	390.0	8		1.5	0.005	0.001
STD DEV (GEOM *)					0.664	30.7			5.5		0.003
# SAMP IN STATISTICS		11			11	11	5		11	6	11
% SAMP (EXCLUDED)							37			45	

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP	TURB
			K'DAHL N					
			TOTAL					
SAMPLE DATE	YMMDD LMT	SAMPLE HOUR	SAMPLE DEPTH	PROJECT SUB-PROJ	CHLORIDE UNF.REAC	CONDUCT. 25C		STREAM COND.
			M	CODE	MG/L AS CL-	UMHO/CM AT 25 C		
830124	1111	36204	0.30	0101	2.000	485.0	4<	6
830228	1420	36219	0.30	0101	2.500	485.0	4<	6
830328	1020	36229	0.30	0101	2.000	470.0	8	6
830426	1100	36244	0.30	0101	2.000	425.0	4<	6
830525	1300	36259	0.30	0101	2.500	456.0	36	6
830627	1050	36274	0.30	0101	2.500	476.0	252	6
830725	1040	36289	0.30	0101	2.000	486.0	64	6
830822	1045	36304	0.30	0101	2.500	390.0	472	6
831004	1055	36324	0.30	0101	3.500	474.0		6
831025	1048	36341	0.30	0101	3.000	488.0		6
831128	1040	36348	0.30	0101	4.000	475.0		6
MAXIMUM		0.30			4.000	488.0	472	
ARITH MEAN		0.30			2.591	464.5	166	
GEOM MEAN					2.522	463.6		
MINIMUM		0.30			2.000	390.0	8	
STD DEV (GEOM *)					0.664	30.7		
# SAMP IN STATISTICS		11			11	11	5	
% SAMP (EXCLUDED)							37	

(CONTD) !

## 1983 WATER QUALITY DATA REGION 1

18

B.O.W./ SITE: BEAVER RIVER

SAMPLE POINT: AT COUNTY ROAD NO.10 OSPREY TOWNSHIP

STATION TYPE: RIVER

STATION ID: 03-0036-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 21 13.79 LONG: 080 22 10.19

U T M: 17 0550250.0 4911150.0 4

REGION: 01

DISTANCE: 59.061

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP	TURB
		NO3-N	K'DAHL N		PO4	PHOSPHOR		
		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	RESIDUE	
SAMPLE DATE	YEAR	MG/L	MG/L		MG/L	MG/L	PARTIC.	TURB'ITY
YYMMDD	LMT	AS N	AS N	PH	AS P	AS P	MG/L	FTU
MAXIMUM		1.960	0.620	8.24	0.023	0.059	22.7	9.90
ARITH MEAN		1.505	0.325	8.12	0.012	0.025	6.0	2.12
GEOM MEAN		1.458	0.307	8.12	0.011	0.021		1.25
MINIMUM		0.810	0.200	8.01	0.006	0.010	1.0	0.38
STD DEV (GEOM *)		0.367	0.126	0.08	0.005	0.015		2.79
# SAMP IN STATISTICS		11	11	11	11	11	10	11
% SAMP (EXCLUDED)							9	

## 1983 WATER QUALITY DATA REGION 1

19

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.8 OSPREY TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 03-0036-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 20 08.86 LONG: 080 21 50.57 U T M: 17 0550700.0 4909150.0 4 REGION: 01 DISTANCE: 58.257

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N TOTAL	
SAMPLE DATE YYMMDD	DATE HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	HF CNT /100ML	HF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830124	1050	36203	0.30	0101	4.500	478.0	4<	4<	6	3.5	0.005	0.002
830228	1410	36218	0.30	0101	5.000	476.0	24	4<	6	4.5	0.005<	0.002
830328	1010	36228	0.30	0101	4.000	452.0	32	4<	6	5.0	0.005	0.001
830426	1039	36243	0.30	0101	4.000	467.0	4	4	6	6.0	0.010	0.003
830525	1245	36258	0.30	0101	4.500	455.0	116	60	6	13.0	0.010	0.005
830627	1035	36273	0.30	0101	4.500	485.0	168	132	6	17.5	0.005	0.002
830725	1015	36288	0.30	0101	5.500	510.0	172	28	6	13.0	0.005	0.001
830822	1030	36303	0.30	0101	3.500	400.0	600>	600>	6	15.0	0.010	0.003
831004	1115	36326	0.30	0101	6.000	482.0			6	13.0	0.005<	0.001
831025	1030	36339	0.30	0101	6.000	489.0			6	7.5	0.005<	0.001
831128	1015	36347	0.30	0101	6.000	440.0			6	1.5	0.005	0.001
MAXIMUM		0.30			6.000	510.0	172	132		17.5	0.010	0.005
ARITH MEAN		0.30			4.864	466.7	86	56		9.0	0.007	0.002
GEOM MEAN					4.788	465.8				7.3		0.002
MINIMUM		0.30			3.500	400.0	4	4		1.5	0.005	0.001
STD DEV (GEOM *)					0.897	29.4				5.4		0.001
# SAMP IN STATISTICS		11			11	11	6	4	11	8	11	
% SAMP (EXCLUDED)							25	50		27		

*INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	RSP	TURB	
SAMPLE DATE YYMMDD	DATE HOUR LMT	SAMPLE NUMBER	NO3-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830124	1050	36203	1.310	0.220	7.94	0.011	0.013	0.6	1.23
830228	1410	36218	1.350	0.210	8.21	0.005	0.014	2.2	0.75
830328	1010	36228	1.170	0.250	8.09	0.005	0.014	2.7	0.98
830426	1039	36243	1.100	0.270	8.08	0.005	0.016	3.7	0.92
830525	1245	36258	0.840	0.450	8.08	0.021	0.042	5.8	1.90
830627	1035	36273	1.350	0.340	8.01	0.016	0.063	4.0	1.28
830725	1015	36288	1.560	0.290	8.03	0.018	0.024	3.2	1.15
830822	1030	36303	0.720	0.540	7.99	0.024	0.057	14.7	11.60
831004	1115	36326	1.410	0.270	7.99	0.009	0.013	3.4	0.42
831025	1030	36339	1.400	0.230	7.98	0.005	0.008	0.8	0.53
831128	1015	36347	1.090	0.340	8.11	0.007	0.016	2.2	

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

21

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.30 SOUTH OF KIMBERLEY  
 STATION TYPE: RIVER

STATION ID: 03-0036-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 20 45.92 LONG: 080 32 22.47 U T M: 17 0536700.0 4910200.0 4 REGION: 01 DISTANCE: 37.175

*=-INTERIM TEST-NAME:		FMSADP	FGPROJ	CLIDUR	COND25	CUUT	FCMF	FEUT	FSMF	FWSTRC	FWTEMP
SAMPLE DATE	YEAR	DEPTH	PROJECT	UNF. REAC	CONDUCT.	COPPER	FECAL	IRON	FECAL	STREAM	WATER
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	25C	MG/L	COLIFORM	MG/L	STREPCUS	COND.	TEMP
			CODE	AS CL-	UMHO/CH	AS CU	MF	AS FE	MF		DEG.C
					AT 25 C		CNT		CNT		
							/100ML		/100ML		
830124	1012	36200	0101	6.500	460.0		4<		4<	6	2.7
830228	1310	36215	0101	6.500	490.0		4		4<	6	3.5
830328	0928	36225	0101	6.500	435.0	0.0900	12	0.0800	8	6	4.0
830426	1000	36240	0101	5.500	442.0		4<		4<	6	5.0
830525	1120	36255	0101	5.000	425.0	0.0300	8		4	6	12.0
830627	1005	36270	0101	6.000	400.0		44		72	6	21.0
830725	0930	36285	0101	10.000	462.0		52		48	6	16.5
830822	0939	36300	0101	7.000	350.0		600>		600>	6	19.0
831004	1140	36328	0101	7.000	370.0					6	16.0
831025	1110	36342	0101	7.500	400.0					6	7.0
831128	0928	36344	0101	7.500	399.0					6	3.0
MAXIMUM		0.30		10.000	490.0	0.0900	52	0.0800	72		21.0
ARITH MEAN		0.30		6.818	421.2	0.0600	24	0.0800	33		10.0
GEOM MEAN				6.714	419.3	0.0520					7.6
MINIMUM		0.30		5.000	350.0	0.0300	4	0.0800	4		2.7
STD DEV (GEOM *)				1.309	42.0	0.0424					7.1
# SAMP IN STATISTICS		11		11	11	2	5	1	4		11
% SAMP (EXCLUDED)							37		50		

*=-INTERIM TEST-NAME:		NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP
SAMPLE DATE	YEAR	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		PHENOLS	FIL. REAC	UNF. TOT.	RESIDUE
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	PARTIC.
		AS N	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P	AS P	MG/L
830124	1012	0.015	0.003	1.250	0.280		8.08	1.000<	0.002	0.006	1.7
830228	1310	0.010	0.006	1.400	0.240		8.18	1.000<	0.001<	0.007	2.1
830328	0928	0.010	0.002	1.070	0.220	0.030<	8.31	1.000<	0.001<	0.026	1.9
830426	1000	0.010	0.002	1.000	0.270		8.34	1.500	1.350	0.240	1.8
830525	1120	0.015	0.003	0.780	0.320	0.030<	8.40	1.000<	0.047	0.072	5.7
830627	1005	0.030	0.004	0.520	0.380		8.34	1.500	0.100	0.108	4.5
830725	0930	0.020	0.002	0.770	0.260		8.35		0.005	0.007	3.1
830822	0939	0.005<	0.002	0.360	0.860		8.26	5.500	0.038	0.142	70.0
831004	1140	0.020	0.002	0.280	0.340		8.43		0.001	0.010	4.9
831025	1110	0.025	0.003	0.420	0.360		8.41		0.001	0.008	0.7
831128	0928	0.010	0.006	0.530	0.310		8.25	1.000<	0.010	0.019	2.3

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

22

B.O.W./ SITE: BEAVER RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.30 SOUTH OF KIMBERLEY  
 STATION TYPE: RIVER

STATION ID: 03-0036-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BEAVER RIVER

STORET CODE: 02  
 002  
 2250

LAT: 44 20 45.92 LONG: 080 32 22.47 U T M: 17 0536700.0 4910200.0 4 REGION: 01 DISTANCE: 37.175

*=INTERIM TEST-NAME:		NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	UG/L PHENOL	MG/L AS P	MG/L AS P	MG/L

MAXIMUM	0.030	0.006	1.400	0.860	8.43	5.500	1.350	0.240	70.0
ARITH MEAN	0.016	0.003	0.762	0.349	8.30	2.833	0.173	0.059	9.0
GEOM MEAN	0.003	0.674	0.324	8.30	0.026	3.3			
MINIMUM	0.010	0.002	0.280	0.220	8.08	1.500	0.001	0.006	0.7
STD DEV (GEOM *)	0.002	0.377	0.177	0.11	0.076	20.3			

# SAMP IN STATISTICS	10	11	11	11	11	3	9	11	11
% SAMP (EXCLUDED)	9					62	18		

*=INTERIM TEST-NAME:		ZNUT ZINC UNF.TOT.
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER

830328	0928	36225	0.0100
830525	1120	36255	0.0100

MAXIMUM	0.0100
ARITH MEAN	0.0100
GEOM MEAN	0.0100
MINIMUM	0.0100

STD DEV (GEOM *)	0.0000
# SAMP IN STATISTICS	2
% SAMP (EXCLUDED)	

## 1983 WATER QUALITY DATA REGION 1

23

B.O.W./ SITE: LITTLE RIVER  
 SAMPLE POINT: AT RIVERSIDE DRIVE WINDSOR  
 STATION TYPE: RIVER

STATION ID: 04-0001-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: LITTLE RIVER

STORET CODE: 02  
 003  
 2750

LAT: 42 20 17.81 LONG: 082 56 34.06 U T M: 17 0339950.0 4688950.0 4 REGION: 01 DISTANCE: 0.161

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CRUT	CUUT	DO	FCMF
					BOD						FECAL
					5 DAY	CHLORIDE	CONDUCT.	CHROMIUM	COPPER	DISOLVED	COLIFORM
					TOT. DEM.	UNF. REAC	25C	UNF. TOT.	UNF. TOT.	OXYGEN	MF
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	CNT
					AS CAC03	AS O	AT 25 C	AS CR	AS CU	AS O	/100ML
SAMPLE DATE	HR	SAMPLE	SAMPLE	PROJECT	ALK						
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL						
			M	CODE	MG/L						
830110	1130	36405	0.30	0101	149.0	6.04	86.500	870.0	0.0200<	0.0100<	4<
830215	1300	36417	0.30	0101	93.3	4.30	17.000	300.0	0.0200<	0.0100	164
830315	1130	36421	0.30	0101	166.0	3.28	93.000	890.0	0.0600	0.0100<	244
830419	0740	36430	0.30	0101	150.0	6.00	55.000	660.0	0.0200<	0.0100	12
830511	1205	36443	0.30	0101	165.0	5.04	68.000	790.0	0.0200	0.0100	600>
830613	1140	36454	0.30	0101	140.0	2.36	61.000	675.0	0.0300	0.0100	260
830712	1215	36464	0.30	0101	188.0	2.22	56.000	670.0	0.0200	0.0100<	1000
830808	1125	36475	0.30	0101	102.0	1.96	38.000	406.0	0.0200<	0.0100	290
830914	1400	36486	0.30	0101	94.5		37.000	370.0			
831012	1140	36497	0.30	0101	126.0	3.34	61.500	680.0	0.015	0.006	5.5
831114	1100	36508	0.30	0101	163.0	3.22	57.500	760.0	0.002	0.003	8.0
831213		36519	0.30	0101	120.0	5.46	41.500	520.0	0.027	0.010	9.5
											8500
		MAXIMUM	0.30		188.0	6.04	93.000	890.0	0.0600	0.010	11.0
		ARITH MEAN	0.30		138.1	3.93	56.000	632.6	0.025	0.009	7.1
		GEOM MEAN			134.7	3.65	51.651	600.8			6.8
		MINIMUM	0.30		93.3	1.96	17.000	300.0	0.002	0.003	4.0
		STD DEV (GEOM *)			31.0	1.52	21.145	193.9			2.2
		* SAMP IN STATISTICS	12		12	11	12	12	7	8	9
		% SAMP (EXCLUDED)							36	27	7
											22

*INTERIM TEST-NAME:		FSMF	FWSTRC	FWTEMP	NIUT	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH
		FECAL				NH3-N			K'DAHL N		
		STREPCUS			NICKEL	TOTAL			TOTAL	LEAD	
		MF			UNF. TOT.	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.	
		CNT			MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
		/100ML			AS NI	AS N	AS N	AS N	AS N	AS PB	PH
SAMPLE DATE	HR	SAMPLE		WATER							
YYMMDD	LMT	NUMBER	STREAM	TEMP							
			COND.	DEG.C							
830110	1130	36405	4<	2.0	0.050	3.700	0.270	10.000	4.900	0.030<	7.52
830215	1300	36417	124	0.0	0.020<	0.155	0.130	0.920	1.100	0.030<	7.77
830315	1130	36421	148	10.0	0.200	2.400	0.280	6.800	3.800	0.030<	7.61
830419	0740	36430	120	4.0	0.100	0.320	0.074	4.700	1.660	0.030<	7.65
830511	1205	36443	600>	14.0	0.020	0.830	0.098	8.000	1.910	0.030<	7.53
830613	1140	36454	10AID	22.0	0.070	1.200	0.420	5.200	3.560	0.030<	7.42
830712	1215	36464	20AID	25.0	0.030	2.400	0.240	3.800	2.300	0.030<	7.58
830808	1125	36475	390	25.0	0.020	0.625	0.065	1.890	1.190	0.030<	7.74
830914	1400	36486		21.0	0.950	0.034	0.034	0.340	1.200		7.87
831012	1140	36497		17.0	0.031	7.650	0.110	1.560		0.003<	7.54
831114	1100	36508		7.6	0.032	0.830	0.094	7.400	3.350	0.003<	7.64
831213		36519	4400	4.0	0.069	0.430	0.360	3.490	2.100	0.013	7.52

( CONTD )



## 1983 WATER QUALITY DATA REGION 1

24

B.O.W./ SITE: LITTLE RIVER  
 SAMPLE POINT: AT RIVERSIDE DRIVE WINDSOR  
 STATION TYPE: RIVER

STATION ID: 04-0001-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: LITTLE RIVER

STORET CODE: 02  
 003  
 2750

LAT: 42 20 17.81 LONG: 082 56 34.06 U T M: 17 0339950.0 4688950.0 4 REGION: 01 DISTANCE: 0.161

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS MF	FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT	PH	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	CNT /100ML	STREAM COND.	WATER TEMP DEG.C	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH

MAXIMUM		4400			25.0	0.200	7.650	0.420	10.000	4.900	0.013	7.87
ARITH MEAN		745			12.6	0.062	1.791	0.181	4.508	2.461	0.013	7.62
GEOM MEAN							1.046	0.140	3.211	2.182		7.61
MINIMUM		10			0.0	0.020	0.155	0.034	0.340	1.100	0.013	7.42
STD DEV (GEOM *)							2.125	0.128	3.072	1.261		0.13
# SAMP IN STATISTICS		7			12	10	12	12	12	11	1	12
% SAMP (EXCLUDED)		22				9					90	

*INTERIM TEST-NAME:		PHNOL	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	PIPCBT	RSP	TCHF COLIFORM TOTAL	TCHFBK COLIFORM TOTAL MF	TURB	ZNUT
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	PCB TOTAL NG/L	RESIDUE PARTIC. MG/L	TOTAL MF CNT /100ML	BCKGRD CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN

830110	1130	36405	4.000	0.250	0.600		7.2	10AID	50	5.30	0.0600
830215	1300	36417	1.000<	0.006	0.134	4<	40.9	7300	17000	26.00	0.0200
830315	1130	36421	3.500	0.002	0.370	16	11.2	5600	7800	11.60	0.0200
830419	0740	36430	2.500	0.189	0.380	4<	19.5	170	660	19.50	0.0300
830511	1205	36443	4.500	0.310	0.460	600>	17.2	78000C	240000>	21.00	0.0600
830613	1140	36454	4.000	0.350	0.490	4<	21.2	19000	98000	22.00	0.0400
830712	1215	36464	6.000	0.100	0.475	12	17.1	7800	48000	15.30	0.0300
830808	1125	36475	1.500	0.109	0.180	76	15.3	19000C	460000	15.40	0.0100
830914	1400	36486	1.000<	0.067	0.081	20<W	16.1			13.70	
831012	1140	36497	5.000	0.080	0.190		11.1			12.90	0.022
831114	1100	36508	1.000<	0.168	0.335		14.2			24.00	0.021
831213		36519	5.000	0.214	0.410	140C	60.3	47000	82000	144.00	0.048
MAXIMUM		6.000	0.350	0.600	140	20	60.3	78000	460000	144.00	0.0600
ARITH MEAN		4.000	0.154	0.342	61	20<A	20.9	20431	89189	27.56	0.033
GEOM MEAN			0.084	0.296			17.7	4473		18.90	0.029
MINIMUM		1.500	0.002	0.081	12	20	7.2	10	50	5.30	0.0100
STD DEV (GEOM *)			0.113	0.162			15.0	18*		37.13	0.017
# SAMP IN STATISTICS		9	12	12	4	1	12	9	8	12	11
% SAMP (EXCLUDED)		25			50				11		

## 1983 WATER QUALITY DATA REGION 1

25

B.O.W./ SITE: PUCE RIVER  
 SAMPLE POINT: AT ESSEX COUNTY ROAD 42 SOUTH OF PUCE  
 STATION TYPE: RIVER

STATION ID: 04-0005-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: PUCE RIVER

STORET CODE: 02  
 003  
 2770

LAT: 42 16 39.08 LONG: 082 47 19.46 U T M: 17 0352500.0 4681925.0 4 REGION: 01 DISTANCE: 3.380

*INTERIM TEST-NAME:		FWSADP	FGPROJ	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR
				CONDUCT.	FECAL	FECAL			NH3-N		
SAMPLE			PROJECT	25C	COLIFORM	STREPCUS		WATER	FIL.REAC	FIL.REAC	FIL.REAC
DATE	HR	SAMPLE	SUB-PROJ	UMHO/CM	MF	MF	STREAM	TEMP	MG/L	MG/L	MG/L
YYMMDD	LMT	NUMBER	CODE	AT 25 C	CNT	CNT	COND.	DEG.C	AS N	AS N	AS N
					/100ML	/100ML					
830110	1100	36404	0101	785.0	460	448	6 8	2.0	0.780	0.045	7.600
830215	1140	36416	0101	960.0	110	880	6 8	1.0	0.330	0.040	8.900
830511	1145	36442	0101	700.0	290	50AID	6 8	15.0	0.045	0.058	4.600
830613	1120	36453	0101	695.0	320	108	6 8	23.0	0.310	0.117	3.800
830712	1155	36463	0101	755.0	150	104	9 6 8	25.0	0.145	0.108	5.100
830808	1105	36474	0101	650.0	360	188	6 8	24.0	0.020	0.034	1.860
830914	1305	36485	0101	620.0			6 8	18.0	0.045	0.007	0.270
831012	1120	36496	0101	700.0			6 8 9	15.0	0.350	0.007	0.010<
831114	1035	36507	0101	645.0			6 8	3.0	0.115	0.056	7.200
831213	1115	36518	0101	294.0	1900	4300	6 8	3.0	0.165	0.080	3.120
MAXIMUM		0.30		960.0	1900	4300		25.0	0.780	0.117	8.900
ARITH MEAN		0.30		680.4	513	868		12.9	0.230	0.055	4.717
GEOM MEAN				656.2	336	292		7.9	0.141	0.040	
MINIMUM		0.30		294.0	110	50		1.0	0.020	0.007	0.270
STD DEV (GEOM *)				166.9	2*	5*		9.8	0.229	0.038	
# SAMP IN STATISTICS		10		10	7	7		10	10	10	9
% SAMP (EXCLUDED)											10

*INTERIM TEST-NAME:		NNTKUR	PH	PP04FR	PPUT	RSP	TURB
		K'DAHL N		P04	PHOSPHOR		
SAMPLE		TOTAL		FIL.REAC	UNF.TOT.	RESIDUE	TURB'ITY
DATE	HR	UNF.REAC		MG/L	MG/L	PARTIC.	FTU
YYMMDD	LMT	AS N	PH	AS P	AS P	MG/L	
830110	1100	36404	1.650	8.01	0.132	0.163	20.7
830215	1140	36416	1.090	8.02	0.103	0.135	28.3
830511	1145	36442	1.010	8.00	0.082	0.150	31.2
830613	1120	36453	2.320	7.84	0.071	0.340	201.1
830712	1155	36463	1.560	8.23	0.058	0.146	40.7
830808	1105	36474	1.040	8.12	0.134	0.192	25.1
830914	1305	36485	0.680	8.27	0.055	0.068	7.1
831012	1120	36496	1.600	7.55	0.076	0.216	34.1
831114	1035	36507	2.350	7.85	0.163	0.275	20.4
831213	1115	36518	2.050	7.45	0.370	0.640	44.1

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

26

B.O.W./ SITE: PUCE RIVER  
 SAMPLE POINT: AT ESSEX COUNTY ROAD 42 SOUTH OF PUCE  
 STATION TYPE: RIVER

STATION ID: 04-0005-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: PUCE RIVER

STORET CODE: 02  
 003  
 2770

LAT: 42 16 39.08 LONG: 082 47 19.46 U T M: 17 0352500.0 4681925.0 4 REGION: 01 DISTANCE: 3.380

*=INTERIM TEST-NAME:		NNTKUR	PH	PP04FR	PPUT	RSP	TURB
		K'DAHL N					
		TOTAL		P04	PHOSPHOR		
		UNF.REAC		FIL.REAC	UNF.TOT.	RESIDUE	
SAMPLE		MG/L		MG/L	MG/L	PARTIC.	TURB'ITY
DATE HOUR	SAMPLE		PH	AS P	AS P	MG/L	FTU
YYMMDD LMT	NUMBER	AS N					
MAXIMUM	2.350	8.27	0.370	0.640	201.1	415.00	
ARITH MEAN	1.535	7.93	0.124	0.232	45.3	94.66	
GEOM MEAN	1.430	7.93	0.104	0.195	31.0	54.99	
MINIMUM	0.680	7.45	0.055	0.068	7.1	11.60	
STD DEV (GEOM *)	0.579	0.27	0.093	0.162	55.8	125.32	
# SAMP IN STATISTICS	10	10	10	10	10	10	
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 1

27

B.O.W./ SITE: BELLE RIVER  
 SAMPLE POINT: AT FIRST ROAD SOUTH OF HIGHWAY 401  
 STATION TYPE: RIVER

STATION ID: 04-0007-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BELLE RIVER

STORET CODE: 02  
 003  
 2800

LAT: 42 13 37.28 LONG: 082 43 10.04 U T M: 17 0358100.0 4676200.0 4 REGION: 01 DISTANCE: 9.978

*INTERIM TEST-NAME:		FWSADP	FGPROJ	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR	NN03FR	
SAMPLE DATE	HR	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830110	1045	36403	0.30	0101	860.0	940	308	6 8	2.0	0.500	0.037	5.000
830215	1130	36415	0.30	0101	1020.0	270	76	4	0.0	0.495	0.035	5.500
830511	1130	36441	0.30	0101	660.0	190	80AID	6 8	14.0	0.115	0.101	5.200
830613	1110	36452	0.30	0101	740.0	410	132	9 6 8	24.0	0.035	0.092	3.200
830712	1140	36462	0.30	0101	685.0	380	148	6 8	26.0	0.060	0.060	2.700
830808	1055	36473	0.30	0101	690.0	600>	228	6 8	23.0	0.060	0.122	1.650
830914	1300	36484	0.30	0101	605.0			6 8 9	18.0	0.600	0.220	0.400
831012	1105	36495	0.30	0101	735.0			6 8 9	15.0	0.040	0.007	0.040
831114	1020	36506	0.30	0101	725.0			6 8	3.0	0.130	0.050	6.900
831213	1100	36517	0.30	0101	318.0	2900	4700	3	3.0	0.160	0.080	3.370
MAXIMUM		0.30			1020.0	2900	4700		26.0	0.600	0.220	6.900
ARITH MEAN		0.30			703.8	848	810		12.8	0.219	0.080	3.396
GEOM MEAN					678.8		235			0.133	0.059	1.941
MINIMUM		0.30			318.0	190	76		0.0	0.035	0.007	0.040
STD DEV (GEOM *)					178.9		4*			0.221	0.060	2.269
# SAMP IN STATISTIC		10			10	6	7		10	10	10	10
% SAMP (EXCLUDED)						14						

*INTERIM TEST-NAME:		NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	RSP	TURB	
SAMPLE DATE	HR	SAMPLE NUMBER	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB*ITY FTU
830110	1045	36403	1.400	7.78	0.142	0.180	8.1	11.60
830215	1130	36415	1.220	7.75	0.129	0.173	10.4	7.20
830511	1130	36441	2.940	8.57	0.059	0.450	100.6	90.00
830613	1110	36452	1.280	7.85	0.057	0.144	31.9	38.00
830712	1140	36462	1.200	8.03	0.104	0.182	31.6	37.00
830808	1055	36473	1.280	7.83	0.102	0.200	38.6	40.00
830914	1300	36484	1.400	7.96	0.235	0.450	89.6	98.00
831012	1105	36495	0.164	7.84	0.124	0.190	2.4	6.80
831114	1020	36506	2.250	7.94	0.103	0.215	31.5	62.00
831213	1100	36517	2.150	7.51	0.250	0.680	61.2	425.00

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

28

B.O.W./ SITE: BELLE RIVER  
 SAMPLE POINT: AT FIRST ROAD SOUTH OF HIGHWAY 401  
 STATION TYPE: RIVER

STATION ID: 04-0007-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BELLE RIVER

STORET CODE: 02  
 003  
 2800

LAT: 42 13 37.28 LONG: 082 43 10.04 U T M: 17 0358100.0 4676200.0 4 REGION: 01 DISTANCE: 9.978

*=INTERIM TEST-NAME:		NNTKUR	PH	PP04FR	PPUT	RSP	TURB	
		K'DAHL N						
		TOTAL		P04	PHOSPHOR			
		UNF.REAC		FIL.REAC	UNF.TOT.	RESIDUE		
SAMPLE	DATE	MG/L		MG/L	MG/L	PARTIC.	TURB'ITY	
YYMMDD	HOUR	AS N	PH	AS P	AS P	MG/L	FTU	
	LHT	NUMBER						
		MAXIMUM	2.940	8.57	0.250	0.680	100.6	425.00
		ARITH MEAN	1.528	7.91	0.130	0.286	40.6	81.56
		GEOM MEAN	1.271	7.90	0.117	0.249	25.9	38.64
		MINIMUM	0.164	7.51	0.057	0.144	2.4	6.80
		STD DEV (GEOM *)	0.754	0.27	0.065	0.178	33.5	124.85
		# SAMP IN STATISTICS	10	10	10	10	10	10
		% SAMP (EXCLUDED)						

## 1983 WATER QUALITY DATA REGION 1

29

B.O.W./ SITE: RUSCOM RIVER  
 SAMPLE POINT: 1 MILE EAST OF EXIT 6 ON HIGHWAY 401  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH002

STATION ID: 04-0010-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RUSCOM RIVER

STORET CODE: 02  
 003  
 2830

LAT: 42 13 56.44 LONG: 082 36 59.75 U T M: 17 0366600.0 4676625.0 4 REGION: 01 DISTANCE: 9.978

*INTERIM TEST-NAME:		FWSADP	FGPROJ	BOD5	COND25	FCMF	FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR
				BOD 5 DAY	CONDUCT.	FECAL COLIFORM	FECAL STREPCUS	STREAM FLOW		WATER	NH3-N
SAMPLE DATE YYMMDD	TIME LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	TOT.DEM. MG/L AS O	UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	H3 /S	STREAM COND.	FIL.REAC MG/L AS N
830110	1030	36402	0.30	0101		790.0	540	650	0.215	6 8	0.090
830215	1050	36414	0.30	0101		820.0	200	220	0.080	6 8	0.035
830315	1915	36429	0.30	0101		760.0	120	8	0.274	6 8	0.015
830511	1115	36440	0.30	0101		700.0	500	20AID	0.529	6 8	0.035
830613	1100	36451	0.30	0101		700.0	50AID	44	0.184	6 8	0.055
830712	1130	36461	0.30	0101		735.0	424	220	0.116	6 8	0.030
830808	1035	36472	0.30	0101		695.0	252	264	0.167	6 8	0.050
830914	1245	36483	0.30	0101	2.00	645.0			0.024	6 8	0.050
831012	1055	36494	0.30	0101		670.0			0.052	6 8 9	0.020
831114	1010	36505	0.30	0101		685.0			1.420	6 8	0.045
831213	1045	36516	0.30	0101		357.0	1500	4300	7.460	6 8	0.155
MAXIMUM		0.30			2.00	820.0	1500	4300	7.460		0.155
ARITH MEAN		0.30			2.00	687.0	448	716	0.956		0.053
GEOM MEAN						673.9	291	150	0.234		0.043
MINIMUM		0.30			2.00	357.0	50	8	0.024		0.015
STD DEV (GEOM *)						121.4	3*	7*	2.193		0.039
# SAMP IN STATISTICS		11			1	11	8	8	11		11
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP	TURB
		N02-N	N03-N	K'DAHL N		P04	PHOSPHOR		
SAMPLE DATE YYMMDD	TIME LMT	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830110	1030	36402	0.033	6.300	0.730	8.09	0.059	0.079	12.0
830215	1050	36414	0.018	6.400	0.600	8.14	0.032	0.046	9.7
830315	1915	36429	0.025	4.900	1.280	8.35	0.009	0.157	21.7
830511	1115	36440	0.050	6.600	0.960	8.20	0.020	0.104	58.7
830613	1100	36451	0.059	2.100	1.200	8.03	0.046	0.154	65.8
830712	1130	36461	0.051	3.000	0.800	8.15	0.047	0.122	51.6
830808	1035	36472	0.098	2.100	1.180	8.05	0.064	0.166	69.2
830914	1245	36483	0.020	0.190	0.520	8.14	0.035	0.086	45.4
831012	1055	36494	0.007	0.110	0.560	7.28	0.020	0.064	29.1
831114	1010	36505	0.035	9.900	1.550	7.86	0.084	0.175	25.3
831213	1045	36516	0.089	4.910	2.300	7.52	0.315	0.725	43.3

(CONT'D)

## 30

STATION ID: 04-0010-002-02

STORET CODE: 02  
003  
2830

**DISTANCE: 9.978**

[illegible]

## 1983 WATER QUALITY DATA REGION 1

31

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKB	ALKT	ALKTI	ASUT	CCNAUR	CCNFUR	CDUT	CLIDUR	
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK BI-CARBONATE MG/L AS CAC03	ALK TOTAL MG/L AS CAC03	ALK INFLECTN POINT MG/L AS CAC03	ARSENIC UNF.TOT. MG/L AS AS	CYANIDE AVAIL UNF.REAC MG/L AS HCN	CYANIDE FREE UNF.REAC MG/L AS HCN	CADMIUM UNF.TOT. MG/L AS CD	CHLORIDE UNF.REAC MG/L AS CL-
830104	1500	42000		0103		222.3					0.0002<	
830124	1030	35001	0.30	0101		246.0			0.001<W			32.500
830222	1500	42001	0.30	0103		210.4					0.0009	
830225	1530	42002	0.30	0103		206.3					0.0030	
	1600	42003	0.30	0103		231.3					0.0005	
830226	1400	42004	0.30	0103		200.6					0.0002<	
830228	0935	35017	0.30	0101		209.0		0.001 <		0.001<W		24.000
830304	1400	42005	0.30	0103		225.2					0.0002<	
830328	0945	35034	0.30	0101		231.0						33.500
	1300	42006	0.30	0103		231.4					0.0002<	
830331	1300	42007	0.30	0103		211.0					0.0002<	
830401	1300	42008	0.30	0103		221.4					0.0002<	
830410	0930	42009	0.30	0103		197.1					0.0002<	
	1430	42010	0.30	0103		196.7					0.0002<	
830411	0830	42011	0.30	0103		158.2					0.0002<	
	1600	42012	0.30	0103		157.5					0.0002<	
830412	0800	42013	0.30	0103		184.5					0.0002<	
	1530	42014	0.30	0103		191.7					0.0002<	
830413	0600	42015	0.30	0103		205.8	215.40				0.0002<	
	1530	42016	0.30	0103		201.2					0.0002<	
830414	0600	42017	0.30	0103		210.4					0.0002<	
	1530	42018	0.30	0103		209.8					0.0002<	
830415	0600	42019	0.30	0103		207.3					0.0010	
	1530	42020	0.30	0103		209.9					0.0010	
830416	0900	42021	0.30	0103		181.5					0.0010	
	1530	42022	0.30	0103		195.0					0.0020	
830417	1130	42023	0.30	0103		212.1					0.0030	
	1530	42024	0.30	0103		209.2					0.0008	
830418	0600	42025	0.30	0103		207.3					0.0007	
	1530	42026	0.30	0103		207.0					0.0006	
830419	0600	42027	0.30	0103		206.5					0.0020	
	1530	42028	0.30	0103		206.5					0.0005	
830420	0600	42029	0.30	0103		209.8					0.0004	
	1530	42030	0.30	0103		209.8					0.0006	
830421	0600	42031	0.30	0103		222.1					0.0030	
	0630	42033	0.30	0103		221.9					0.0004	
	1530	42032	0.30	0103		220.8					0.0006	
830422	1530	42034	0.30	0103		221.2					0.0005	
830423	0900	42035	0.30	0103		224.8					0.0005	
	1500	42036	0.30	0103		224.1					0.0009	

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## 1983 WATER QUALITY DATA REGION 1

32

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

*=INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKB	ALKT	ALKTI	ASUT	CCNAUR	CCNFUR	CDUT	CLIDUR
SAMPLE DATE	DATE HOUR	SAMPLE	SAMPLE	PROJECT	ALK BI-	ALK	ALK	ARSENIC	CYANIDE	CYANIDE	CADMIUM	CHLORIDE
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	CARBONTE	TOTAL	INFLECTN	UNF.TOT.	UNF.REAC	UNF.REAC	UNF.TOT.	UNF.REAC
			M	CODE	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
					AS CAC03	AS CAC03	AS CAC03	AS AS	AS HCN	AS HCN	AS CD	AS CL-
830425	0947	35051	0.30	0101		230.0		0.001 <				29.000
830501	0900	42037	0.30	0103		200.5					0.0002<	
	1500	42038	0.30	0103							0.0002<	
830503	0900	42039	0.30	0103		236.5					0.0002<	
830505	1530	42040	0.30	0102		179.1					0.0002<	
830521	0900	42041	0.30	0103		212.3					0.0002<	
830523	1800	42042	0.30	0103		200.6					0.0002<	
830524	1055	35068	0.30	0101		242.0		0.007		0.001<W		23.000
830526	1600	42043	0.30	0103		213.5					0.0002<	
830528	1600	42044	0.30	0103		221.5					0.0002<	
830606	1130	42045	0.30	0103		221.9					0.0002<	
830608	0900	42046	0.30	0103		217.8					0.0002<	
830610	1200	42047	0.30	0103	8.1	220.1					0.0002<	
830627	0800	42048	0.30	0103		158.6					0.0002<	
	1000	35085	0.30	0101		204.0		0.001		0.001<W		33.000
830721	1000	42049	0.30	0103		172.6					0.0002<	
830725	0945	35102	0.30	0101		169.0		0.001		0.001<W		41.000
830731	1030	42050	0.30	0103		125.1					0.0002<	
	1700	42051	0.30	0103		221.4					0.0002<	
830801	0800	42052	0.30	0103		184.2					0.0002<	
	1730	42053	0.30	0103		142.2					0.0002<	
830802	0630	42054	0.30			156.9					0.0002<	
	1400	42055	0.30			169.4					0.0002<	
830803	0630	42056	0.30			156.0					0.0002<	
	1730	42057	0.30			163.1					0.0002<	
830804	0630	42058	0.30	0103		175.5					0.0002<	
	1730	42059	0.30	0103		170.3					0.0002<	
830805	1800	42060	0.30	0103		167.8					0.0002<	
830813	0630	42061	0.30			168.8					0.0002<	
	1630	42062	0.30			168.4					0.0002<	
830814	0630	42063	0.30			165.0					0.0002<	
	1330	42064	0.30			167.3					0.0002<	
830816	1900	42065	0.30	0103		205.3	206.09				0.0002<	
830822	1009	35118	0.30	0101		234.0		0.001		0.001<W		25.500
830909	1300	42066	0.30	0103		143.8					0.0003	
830926	0958	35135	0.30	0101		174.0		0.0010			0.0002<	32.500
	1530	42067	0.30	0103		181.6					0.0002<	
831018	1350	42068	0.30	0103		209.4					0.0002<	
831024	1000	35152	0.30	0101		216.0		0.001 <	0.001<W		0.0002<	32.500
831103	1330	42069	0.30	0103								

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

33

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKB	ALKT	ALTKI ALK INFLECTN	ASUT	CCNAUR CYANIDE	CCNFUR CYANIDE	CDUT	CLIDUR
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK BI- CARBONTE MG/L AS CAC03	ALK TOTAL MG/L AS CAC03	ARSENIC UNF.TOT. MG/L AS AS	UNF.REAC MG/L AS HCN	UNF.REAC MG/L AS HCN	CADMIUM UNF.TOT. MG/L AS CD	CHLORIDE UNF.REAC MG/L AS CL-
831117	1530	42070	0.30	0103		184.5	0.001 <			0.0002<	
831128	1010	35169	0.30	0101		248.0	0.001 <	0.001<T		0.0002<	32.500
831202	1300	42071	0.30	0103		230.5				0.0002<	
831213	1030	42072	0.30	0103		162.2				0.0008	
831215	1530	42073	0.30	0103		213.4				0.0002<	
831217	1130	42074	0.30	0103		211.3				0.0002<	
831219	1200	42075	0.30	0103		212.2				0.0002<	
MAXIMUM		0.30			8.1	248.0	0.007	0.001	0.001	0.0030	41.000
ARITH MEAN		0.30			8.1	199.8	0.002	0.001<A	0.001<A	0.0010	30.818
GEOM MEAN						197.9		0.001<A	0.001<A		30.420
MINIMUM		0.30			8.1	125.1	0.001	0.001	0.001	0.0002	23.000
STD DEV (GEOM *)						26.4		0.000<A	0.000<A		5.159
# SAMP IN STATISTICS		86			1	85	2	5	3	5	24
% SAMP (EXCLUDED)							50			69	11

*INTERIM TEST-NAME:		COND25	CRUT	CUUT	DO	FCMF FECAL COLIFORM	FEUT	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	HGUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	CONDUCT. 25C UMHO/CM AT 25 C	CHROMIUM UNF.TOT. MG/L AS CR	COPPER UNF.TOT. MG/L AS CU	DISSOLVED OXYGEN MG/L AS O	IRON UNF.TOT. MG/L AS FE	IRON UNF.TOT. MG/L AS FE	IRON UNF.TOT. MG/L AS FE	WATER TEMP DEG.C	MERCURY UNF.TOT. UG/L AS HG
830104	1500	42000			0.010						
830124	1030	35001	680.0			12.50	140	520	4	1.0	
830222	1500	42001			0.014						0.04
830225	1530	42002			0.015						
	1600	42003			0.021						0.02<
830226	1400	42004			0.008						0.02<
830228	0935	35017	555.0			12.5	10AID	1.2900	50AID	6	0.01
830304	1400	42005			0.009						0.01
830328	0945	35034	630.0		0.0100	14.5	8	0.3800	16	6	0.03<
	1300	42006			0.014						0.01
830331	1300	42007	624.0		0.008						0.03<
830401	1300	42008	629.0		0.005						0.03<
830410	0930	42009	577.0		0.013						0.03<
	1430	42010	575.0		0.013						0.03<
830411	0830	42011	459.0		0.011						0.03<
	1600	42012	461.0		0.015						0.03<
830412	0800	42013	504.0		0.010						0.02

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

34

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*=INTERIM	TEST-NAME:	COND25	CRUT	CUUT	DO	FCMF	FEUT	FSMF	FWSTRC	FWTEMP	HGUT
		CONDUCT.	CHROMIUM	COPPER	DISOLVED	FECAL	IRON	FECAL			MERCURY
SAMPLE		25C	UNF.TOT.	UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.	STREPCUS		WATER	UNF.TOT.
DATE	HOUR	UMHO/CM	MG/L	MG/L	MG/L	HF	MG/L	HF	STREAM	TEMP	UG/L
YYMMDD	LMT	AT 25 C	AS CR	AS CU	AS O	CNT	AS FE	CNT	COND.	DEG.C	AS HG
830412	1530	42014	503.0	0.009							0.02
830413	0600	42015	530.0	0.005							0.03
	1530	42016	530.0	0.005							0.02
830414	0600	42017	549.0	0.009							0.02
	1530	42018	549.0	0.006							0.02
830415	0600	42019	544.0	0.045							0.04
	1530	42020	544.0	0.024							0.03
830416	0900	42021	473.0	0.024							0.05
	1530	42022	476.0	0.026							0.05
830417	1130	42023	501.0	0.029							0.03
	1530	42024	502.0	0.021							0.04
830418	0600	42025	536.0	0.013							0.03
	1530	42026	537.0	0.014							0.03
830419	0600	42027	538.0	0.024							0.03
	1530	42028	539.0	0.016							0.03
830420	0600	42029	546.0	0.012							0.02
	1530	42030	551.0	0.015							0.03
830421	0600	42031	584.0	0.021							0.03
	0630	42033	586.0	0.025							0.09
	1530	42032	578.0	0.018							0.04
830422	1530	42034	580.0	0.029							0.06
830423	0900	42035	582.0	0.022							0.02
	1500	42036	584.0	0.022							0.02
830425	0947	35051	615.0	0.0100	10.5	20	1.5300	4	6	9.0	
830501	0900	42037	562.0	0.015							
	1500	42038	566.0	0.006							
830503	0900	42039	436.0	0.024							0.06
830505	1530	42040	454.0	0.012							0.04
830521	0900	42041	546.0	0.013							0.02
830523	1800	42042	527.0	0.005							0.03
830524	1055	35068	540.0	0.0200	7.5	112	8.2000	284	6	16.0	0.02
830526	1600	42043	539.0	0.017							0.03
830528	1600	42044	558.0	0.025							0.02<
830606	1130	42045	554.0	0.005							0.02
830608	0900	42046	564.0	0.008							0.02
830610	1200	42047	549.0	0.014							0.03<
830627	0800	42048	490.0	0.005							0.02
	1000	35085	570.0		8.0	20AID	1.7500	70AID	6	26.0	0.01
830721	1000	42049	532.0	0.005							0.04
830725	0945	35102	540.0	0.0100	6.5	72	2.9000	60	6	22.0	0.03<

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

35

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*INTERIM TEST-NAME:		COND25	CRUT	CUUT	DO	FCMF	FEUT	FSMF	FWSTRC	FWTEMP	HGUT
		CONDUCT.	CHROMIUM	COPPER	DISOLVED	FECAL	IRON	FECAL			MERCURY
SAMPLE		25C	UNF.TOT.	UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.	STREPCUS		WATER	UNF.TOT.
DATE	HOUR	UMHO/CM	MG/L	MG/L	MG/L	MF	MG/L	MF	STREAM	TEMP	UG/L
YYMMDD	LHT	NUMBER	AS CR	AS CU	AS O	CNT	AS FE	CNT	COND.	DEG.C	AS HG
						/100ML		/100ML			
830731	1030	42050	387.0								0.06
	1700	42051	376.0								0.07
830801	0800	42052	388.0								0.04
	1730	42053	378.0								0.07
830802	0630	42054	402.0								0.02
	1400	42055	409.0								0.03
830803	0630	42056	430.0								0.11
	1730	42057	419.0								0.02
830804	0630	42058	444.0								0.03
	1730	42059	445.0								0.02
830805	1800	42060	439.0								0.04
830813	0630	42061	426.0								0.02
	1630	42062	424.0								0.04
830814	0630	42063	418.0								0.03
	1330	42064	415.0								0.02
830816	1900	42065	497.0								0.02
830822	1009	35118	580.0		11.5	244	1.9600	216	6	25.0	0.02
830909	1300	42066	607.0								0.01
830926	0958	35135	525.0		10.0		1.9000		6	16.0	
	1530	42067	511.0								0.03
831018	1350	42068	604.0								0.02
831024	1000	35152	585.0		10.5		1.100		6	11.0	0.03
831103	1330	42069									0.01
831117	1530	42070		0.001							0.03
831128	1010	35169	670.0		12.5		0.650		6	6.0	0.03
831202	1300	42071	780.0								0.01<
831213	1030	42072	459.0								0.07
831215	1530	42073	554.0								0.02
831217	1130	42074	588.0								0.01<
831219	1200	42075	586.0								0.01<
MAXIMUM		780.0	0.001	0.045	14.5	244	8.2000	520		26.0	0.11
ARITH MEAN		525.9	0.001	0.014	10.6	78	2.166	152		12.5	0.03
GEOM MEAN		520.4		0.012	10.3	42	1.556	67		8.5	
MINIMUM		376.0	0.001	0.002	6.5	8	0.3800	4		1.0	0.01
STD DEV (GEOM *)		76.2		0.008	2.5	4*	2.237	5*		9.1	
# SAMP IN STATISTICS		78	1	82	11	8	10	8		11	65
% SAMP (EXCLUDED)											18

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

36

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*=INTERIM		TEST-NAME:	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PHNOL	POALA	POMET
SAMPLE DATE	HR	SAMPLE NUMBER	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	PHENOLS UNF-REAC UG/L PHENOL	ALACHLOR NG/L	METALA- CHLOR NG/L
830104	1500	42000		6.250	0.0060	6.240		0.040	8.03		100<W	100<W
830124	1030	35001	0.120		0.036	5.700	0.730		7.89	1.000<		
830222	1500	42001		5.750	0.0115	5.740		0.018	8.04		100<W	100<W
830225	1530	42002			0.0660			0.006	8.11			
	1600	42003		5.800	0.0205	5.780		0.024	7.97		100<W	100<W
830226	1400	42004		6.250	0.0880	6.160		0.003<	8.02			
830228	0935	35017	0.900		0.035	5.700	0.970		8.15	1.000<		
830304	1400	42005		6.250	0.0225	6.230		0.003<	8.04		100<W	100<W
830328	0945	35034	0.080		0.046	4.700	0.990	0.030<	8.28	1.000<		
	1300	42006		5.120	0.0070	5.120		0.006	7.85		100<W	100<W
830331	1300	42007		5.000	0.0115	4.990		0.003	8.00		100<W	100<W
830401	1300	42008		4.850	0.0030	4.850		0.003	8.26		100<W	100<W
830410	0930	42009		5.800	0.0110	5.790		0.016	7.82		100<W	100<W
	1430	42010		5.800	0.0120	5.790		0.003	8.15			
830411	0830	42011		5.500	0.0190	5.490		0.007	8.12			
	1600	42012		5.500	0.0210	5.480		0.007	8.12			
830412	0800	42013		5.090	0.0245	5.070		0.003<	8.23			
	1530	42014		4.060	0.0170	4.050		0.003<	8.07			
830413	0600	42015		6.100	0.0085	6.090		0.003<	8.21			
	1530	42016		6.000	0.0075	5.990		0.003<	8.24		100<W	100<W
830414	0600	42017		5.760	0.0040	5.760		0.003	8.14			
	1530	42018		5.660	0.0050	5.650		0.003	8.10			
830415	0600	42019		6.700	0.0200	6.680		0.003<	7.85			
	1530	42020		6.250	0.0245	6.230		0.072	7.83		100<W	100<W
830416	0900	42021		5.600	0.0500	5.550		0.014	7.98			
	1530	42022		5.750	0.0450	5.710		0.013	7.75			
830417	1130	42023		5.020	0.0190	5.010		0.065	7.84			
	1530	42024		5.000	0.0230	4.980		0.013	7.89			
830418	0600	42025		6.150	0.0290	6.120		0.004	8.12		100<W	100<W
	1530	42026		5.750	0.0290	5.720		0.050	8.08			
830419	0600	42027		6.000	0.0280	5.970			8.08			
	1530	42028		6.100	0.0240	6.080		0.009	8.06			
830420	0600	42029		5.650	0.0005<T	5.650		0.003<	8.07			
	1530	42030		5.650	0.0075	5.640		0.003	8.09			
830421	0600	42031		6.250	0.0060	6.240		0.005	8.16			
	0630	42033		3.900	0.0090	3.810		0.004	8.14		100<W	100<W
	1530	42032		6.000	0.0085	5.990		0.003<	8.32			
830422	1530	42034		5.560	0.0105	5.550		0.003	8.27			
830423	0900	42035		5.500	0.0080	5.490		0.010	8.18			
	1500	42036		5.150	0.0110	5.140		0.008	8.22			

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

37

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*INTERIM TEST-NAME:		NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC	POALA ALACHLOR	POMET METALA- CHLOR
DATE	HOUR	SAMPLE NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	UG/L PHENOL	NG/L	NG/L
830425	0947	35051	0.070		0.034	5.300	0.830	8.36	2.000		
830501	0900	42037		4.950	0.0035	4.950		8.07			
	1500	42038		4.910	0.0050	4.900		7.85			
830503	0900	42039		0.245	0.0260			7.71			
830505	1530	42040		5.500	0.0090	5.490		8.02		100<W	100<W
830521	0900	42041		4.850	0.1220	4.730		8.08			
830523	1800	42042		5.200	0.0920	5.110		8.10			
830524	1055	35068	0.080		0.073	4.980	1.700	8.05	4.000		
830526	1600	42043		6.100	0.0050	6.090		8.17			
830528	1600	42044		5.470	0.0370	5.440		7.97			
830606	1130	42045		5.500	0.0255	5.480		8.36		100<W	100<W
830608	0900	42046		5.500	0.0200	5.480		8.12			
830610	1200	42047		5.450	0.0470	5.400		8.11			
830627	0800	42048		3.050	0.2510	2.800		7.63		100<W	100<W
	1000	35085	0.005		0.007	3.400	0.950	8.08	4.500		
830721	1000	42049		3.060	0.0890	2.970		7.76		100<W	100<W
830725	0945	35102	0.100		0.830	1.900	1.120	7.91	4.000		
830731	1030	42050		3.910	0.1600	3.750		7.56		100<W	100<W
	1700	42051		3.980	0.0770	3.900		7.52		100<W	100<W
830801	0800	42052		4.200	0.0280	4.170		7.52		100<W	100<W
	1730	42053		4.180	0.1460	4.030		7.56		100<W	100<W
830802	0630	42054		5.000	0.0200	4.980		7.55			
	1400	42055		5.040	0.0160	5.020		7.52			
830803	0630	42056		5.080	0.0335	5.050		7.52			
	1730	42057		5.100	0.0230	5.080		7.59			
830804	0630	42058		4.650	0.0135	4.640		7.84			
	1730	42059		4.640	0.0145	4.630		7.80			
830805	1800	42060		4.640	0.0175	4.620		7.78			
830813	0630	42061		3.480	0.0150	3.460		7.82		100<W	100<W
	1630	42062		3.480	0.0150	3.460		7.81			
830814	0630	42063		3.500	0.0140	3.490		7.82		100<W	100<W
	1330	42064		3.480	0.0180	3.460		7.82			
830816	1900	42065		4.280	0.0075	4.270					
830822	1009	35118	0.120		0.064	3.300	1.140	8.12	4.000		
830909	1300	42066		1.380	0.0530	1.330		7.38		100<W	100<W
830926	0958	35135	0.800		0.045	2.600		8.05	1.500		
	1530	42067		2.750	0.0615	2.690		8.18		100<W	100<W
831018	1350	42068		3.610	0.0430	3.570		8.12		100<W	100<W
831024	1000	35152	0.050		0.022	2.900	0.840	8.18	1.000<		
831103	1330	42069		3.890	0.0390	3.850				100<W	100<W

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## 1983 WATER QUALITY DATA REGION 1

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B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*=INTERIM TEST-NAME:		NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	POALA ALACHLOR NG/L	POMET METALA- CHLOR NG/L
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB				
831117	1530	42070	0.112	4.990	0.0570	4.930	0.950	0.003<	7.88		100<W
831128	1010	35169	0.070			4.800	0.820	0.003<	8.08	1.000<	100<W
831202	1300	42071		6.710	0.0345	6.680		0.004	7.81		100<W
831213	1030	42072		4.900	0.0215	4.880			7.63		100<W
831215	1530	42073		6.200	0.0335	6.170		0.021	7.89		100<W
831217	1130	42074		6.750	0.0900	6.660		0.004	8.13		100<W
831219	1200	42075		6.500	0.0850	6.420		0.004	8.18		100<W
		MAXIMUM	0.900	6.750	0.830	6.680	1.700	0.072	8.36	4.500	100
		ARITH MEAN	0.209	5.048	0.044 <A	4.955	1.004	0.012	7.97	3.333	100<A
		GEOM MEAN	0.099	4.782	0.022 <A	4.788	0.978		7.97		100<A
		MINIMUM	0.005	0.245	0.0005	1.330	0.730	0.003	7.38	1.500	100
		STD DEV (GEOM %)	0.302	1.183	0.094 <A	1.140	0.263		0.22		0<A
		# SAHP IN STATISTICS	12	75	87	85	11	51	85	32	32
		% SAHP (EXCLUDED)						32		45	
*=INTERIM TEST-NAME:		PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	P1ALDR ALDRIN NG/L	P1BHCG BHC GAMMA NG/L	P1CHLA CHLRDANE ALPHA NG/L	P1DIEL DIELDRIN NG/L	P1DMOT DMOT MTHXYLLR NG/L	P1ENDR ENDRIN NG/L	P1ENDT ENDOSULP TOTAL NG/L	P1HEPE HEPTA CHLOR EPOXIDE NG/L
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	MG/L AS P	MG/L AS P							
830104	1500	42000	0.0770	0.119			2				
830124	1030	35001	0.076	0.099							
830222	1500	42001	0.0495	0.088	40<W	40<W	10<W	1<W	40<W	20<W	5<W
830225	1530	42002		0.255							2<W
	1600	42003	0.0580	0.240	40<W	40<W	10<W	1<W	40<W	20<W	5<W
830226	1400	42004	0.0595	0.143							
830228	0935	35017	0.055	0.104							
830304	1400	42005	0.0560	0.148	40<W	40<W	10<W	1<W	40<W	20<W	5<W
830328	0945	35034	0.017	0.093							2<W
	1300	42006	0.0065	0.120	40<W	40<W	10<W	3	40<W	20<W	5<W
830331	1300	42007	0.0210	0.084	40<W	40<W	10<W	1<W	40<W	20<W	5<W
830401	1300	42008	0.0210	0.075	40<W	40<W	10<W	1<W	40<W	20<W	5<W
830410	0930	42009	0.0535	0.096	40<W	40<W	10<W	1<W	40<W	20<W	5<W
	1430	42010	0.0575	0.083							
830411	0830	42011	0.0620	0.083							
	1600	42012	0.0665	0.069							
830412	0800	42013	0.0805	0.117							
	1530	42014	0.0720	0.282							

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

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B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

*INTERIM		TEST-NAME:	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	PIALDR	PIBHC	PICHLA	PIDIEL	PIDMDT	PIENDR	PIENDT	PIHEPE
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER	MG/L AS P	MG/L AS P	ALDRIN NG/L	BHC GAMMA NG/L	CHLRDANE ALPHA NG/L	DIELDRIN NG/L	DMDT MTHXYLLR NG/L	ENDRIN NG/L	ENDOSULP TOTAL NG/L	HEPTA CHLOR EPOXIDE NG/L
830413	0600	42015	0.0510	0.205								
	1530	42016	0.0485	0.061	40<W	40<W	10<W	1<W	40<W	20<W	5<W	
830414	0600	42017	0.0405	0.129								
	1530	42018	0.0410	0.131								
830415	0600	42019	0.0660	0.437								
	1530	42020	0.0730	0.412	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
830416	0900	42021	0.0920	0.710								
	1530	42022	0.0935	0.835								
830417	1130	42023	0.0680	0.430								
	1530	42024	0.0720	0.370								
830418	0600	42025	0.0375	0.119	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
	1530	42026	0.0400	0.113								
830419	0600	42027	0.0405	0.110								
	1530	42028	0.0395	0.120								
830420	0600	42029	0.0390	0.084								
	1530	42030	0.0340	0.088								
830421	0600	42031	0.0420	0.272								
	0630	42033	0.0400	0.122	40<W	40<W	10<W	1	40<W	20<W	5<W	1
	1530	42032	0.0460	0.207								
830422	1530	42034	0.0410	0.097								
830423	0900	42035	0.0305	0.083								
	1500	42036	0.0340	0.087								
830425	0947	35051	0.016	0.079								
830501	0900	42037	0.0330	0.142								
	1500	42038	0.0350	0.164								
830503	0900	42039	0.0840	0.665								
830505	1530	42040	0.0770	0.290	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
830521	0900	42041	0.0390	0.178								
830523	1800	42042	0.0050	0.145								
830524	1055	35068	0.055	0.380								
830526	1600	42043	0.0800	0.200								
830528	1600	42044	0.0520	0.630								
830606	1130	42045	0.0350	0.053	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
830608	0900	42046	0.0525	0.160								
830610	1200	42047	0.0565	0.230								
830627	0800	42048	0.0540	0.170	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2
	1000	35085	0.032	0.125								
830721	1000	42049	0.0550	0.128	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
830725	0945	35102	0.060	0.144								
830731	1030	42050	0.0860	0.810	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2
	1700	42051	0.0970	1.150	40<W	40<W	10<W	1<W	40<W	20<W	5<W	4

( C O N T D )



## 1983 WATER QUALITY DATA REGION 1

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B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
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LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PIALDR ALDRIN NG/L	PIBHCG BHC GAMMA NG/L	PICHLA CHLRDANE ALPHA NG/L	PIIDEL DIELDRIN NG/L	PIDMDT DMDT MTHXYLLR NG/L	PIENDR ENDRIN NG/L	PIENDT ENDOSULP TOTAL NG/L	PIHEPE HEPTA CHLOR EPOXIDE NG/L
830801	0800	42052	0.1260	0.550	40<W	40<W	10<W	1<W	40<W	20<W	5<W	6
	1730	42053	0.1360	0.530	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2
830802	0630	42054	0.1130	0.545								
	1400	42055	0.1150	0.400								
830803	0630	42056	0.0930	0.255								
	1730	42057	0.1090	0.290								
830804	0630	42058	0.1020	0.335								
	1730	42059	0.1040	0.280								
830805	1800	42060	0.1080	0.308								
830813	0630	42061	0.1160	0.290	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
	1630	42062	0.1660	0.118								
830814	0630	42063	0.1380	0.285	40<W	40<W	10<W	1<W	40<W	20<W	860	2<W
	1330	42064	0.1820	0.288								
830816	1900	42065	0.0945	0.175								
830822	1009	35118	0.074	0.178								
830909	1300	42066	0.0060	0.155	40<W	40<W	10<W	1<W	40<W	20<W	5	2<W
830926	0958	35135	0.151	0.230								
	1530	42067	0.1220	0.222	40<W	40<W	10<W	1<W	40<W	20<W	53	2<W
831018	1350	42068	0.0905	0.147	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
831024	1000	35152	0.050	0.106								
831103	1330	42069	0.0545		40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
831117	1530	42070	0.0840	0.240	40<W	40<W	10<W	1<W	40<W	20<W	5<W	1
831128	1010	35169	0.048	0.089								
831202	1300	42071	0.0060	0.090	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
831213	1030	42072	0.1220	0.198	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
831215	1530	42073	0.0785	0.427	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
831217	1130	42074	0.0635	0.129	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
831219	1200	42075	0.0640	0.140	40<W	40<W	10<W	1<W	40<W	20<W	5<W	2<W
		MAXIMUM	0.1820	1.150	40	40	10	3	40	20	860	6
		ARITH MEAN	0.066	0.237	40<A	40<A	10<A	1<A	40<A	20<A	34<A	2<A
		GEOM MEAN	0.055	0.183	40<A	40<A	10<A	1<A	40<A	20<A	6<A	2<A
		MINIMUM	0.0050	0.053	40	40	10	1	40	20	5	1
		STD DEV (GEOM *)	0.036	0.199	0<A	0<A	0<A	0<A	0<A	0<A	154<A	1<A
		# SAMP IN STATISTICS	86	86	31	31	31	32	31	31	31	30
		% SAMP (EXCLUDED)										

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

41

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

*=INTERIM	TEST-NAME:	P1HEPT	P1MIRX	P1OPDT	P1PCBT	P1PPDE	P1PPDT	P2ATRA	P2CYAN	P2CYPR	P2DATR	
SAMPLE DATE	YHMD LMT	SAMPLE NUMBER	HEPACHOR NG/L	MIREX NG/L	OP-DDT NG/L	PCB TOTAL NG/L	PP-DDE NG/L	PP-DDT NG/L	ATRAZINE NG/L	CYNAZINE NG/L	CYPRAZIN NG/L	DE-ETYLT ATRAZINE NG/L
830104	1500	42000		40<W		6<W			1100	20<W	20<W	700
830222	1500	42001	40<W	40<W	2<W	6<W	1<W	2<W	600	20<W	20<W	300
830225	1600	42003	40<W	40<W	2<W	6<W	1<W	2<W	800	20<W	20<W	700
830304	1400	42005	40<W	40<W	2<W	6<W	1<W	2<W	500	20<W	20<W	300
830328	1300	42006	40<W	40<W	2<W	6<W	1<W	2<W	500	20<W	20<W	800
830331	1300	42007	40<W	40<W	2<W	6<W	1<W	2<W	500	20<W	20<W	500
830401	1300	42008	40<W	40<W	2<W	6<W	1<W	2<W	200	20<W	20<W	300
830410	0930	42009	40<W	40<W	2<W	6<W	1<W	2<W	500	20<W	20<W	500
830413	1530	42016	40<W	40<W	2<W	6<W	1<W	2<W	1000	20<W	20<W	700
830415	1530	42020	40<W	40<W	2<W	6<W	1<W	2<W	1100	20<W	20<W	1000
830418	0600	42025	40<W	40<W	2<W	6<W	1<W	2<W	800	20<W	20<W	800
830421	0630	42033	40<W	40<W	2<W	6<W	4	2<W	600	20<W	20<W	500
830505	1530	42040	40<W	40<W	2<W	6<W	9	2<W	1000	20<W	20<W	700
830606	1130	42045	40<W	40<W	2<W	6<W	1<W	2<W	3800	500	20<W	600
830627	0800	42048	40<W	40<W	2<W	6<W	1<W	2<W	1600	200	20<W	600
830721	1000	42049	40<W	40<W	2<W	6<W	1<W	2<W	6100	600	20<W	1100
830731	1030	42050	40<W	40<W	2<W	6<W	1<W	2<W	7000	200	20<W	1100
	1700	42051	40<W	40<W	2<W	6<W	1<W	2<W	6800	200	20<W	700
830801	0800	42052	40<W	40<W	2<W	6<W	1<W	2<W	8500	600	20<W	1100
	1730	42053	40<W	40<W	2<W	6<W	1<W	2<W	8000	500	20<W	800
830813	0630	42061	40<W	40<W	2<W	6<W	1<W	2<W	5800	20<W	20<W	1400
830814	0630	42063	40<W	40<W	2<W	6<W	1<W	2<W	6800	20<W	20<W	1600
830909	1300	42066	40<W	40<W	2<W	6<W	1<W	2<W	2300	20<W	20<W	700
830926	1530	42067	40<W	40<W	2<W	6<W	1<W	2<W	3000	20<W	20<W	1000
831018	1350	42068	40<W	40<W	2<W	6<W	1<W	2<W	1800	20<W	20<W	1000
831103	1330	42069	40<W	40<W	2<W	6<W	1<W	2<W	2100	20<W	20<W	1500
831117	1530	42070	40<W	40<W	2<W	6<W	1<W	2<W	1400	20<W	20<W	700
831202	1300	42071	40<W	40<W	2<W	6<W	1<W	2<W	1000	20<W	20<W	800
831213	1030	42072	40<W	40<W	2<W	6<W	1<W	2<W	1300	20<W	20<W	700
831215	1530	42073	40<W	40<W	2<W	6<W	1<W	2<W	1700	20<W	20<W	1600
831217	1130	42074	40<W	40<W	2<W	6<W	1<W	2<W	1800	20<W	20<W	1300
831219	1200	42075	40<W	40<W	2<W	6<W	1<W	2<W	1500	20<W	20<W	1000
		MAXIMUM	40	40	2	6	9	2	8500	600	20	1600
		ARITH MEAN	40<A	40<A	2<A	6<A	1<A	2<A	2547	103<A	20<A	847
		GEOM MEAN	40<A	40<A	2<A	6<A	1<A	2<A	1603	38<A	20<A	773
		MINIMUM	40	40	2	6	1	2	200	20	20	300
		STD DEV (GEOM *)	0<A	0<A	0<A	0<A	2<A	0<A	2543	180<A	0<A	356
		# SAMP IN STATISTICS	31	32	31	32	31	31	32	32	32	32
		% SAMP (EXCLUDED)										

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

42

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STATION ID: 04-0013-007-82

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*=INTERIM	TEST-NAME:	P2PROH	P2SENC	P2SIM	P3DICA	P3MCPA	P3MCPB	P3MCPD	P3SILV	P324D	P324DB	
SAMPLE	DATE HOUR	SAMPLE	PROMETON	SENCOR	SIMAZINE	DICAMBA	MCPA	MCPB	MCPD	SILVEX	2,4-D	2,4-DB
YYMMDD	LMT	NUMBER	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L
830104	1500	42000	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830222	1500	42001	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830225	1600	42003	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830304	1400	42005	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830328	1300	42006	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830331	1300	42007	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830401	1300	42008	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830410	0930	42009	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830413	1530	42016	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830415	1530	42020	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830418	0600	42025	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830421	0630	42033	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830505	1530	42040	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830606	1130	42045	20<W	20<W	20<W	700	100<W	100<W	100<W	100<W	100<W	500<W
830627	0800	42048	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830721	1000	42049	20<W	20<W	20<W	200	100<W	100<W	500	100<W	200	500<W
830731	1030	42050	20<W	20<W	20<W	400	100<W	100<W	100<W	100<W	300	500<W
	1700	42051	20<W	20<W	20<W	200	100<W	100<W	100<W	100<W	400	500<W
830801	0800	42052	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
	1730	42053	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
830813	0630	42061	20<W	20<W	20<W	100	100<W	100<W	100<W	100<W	300	500<W
830814	0630	42063	20<W	20<W	20<W	100	100<W	100<W	100<W	100<W	100<W	500<W
830909	1300	42066	20<W	20<W	20<W	100<W	100<W	100<W	1200	100<W	100<W	500<W
830926	1530	42067	20<W	20<W	20<W	500	100<W	100<W	100<W	100<W	200	500<W
831018	1350	42068	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	300	500<W
831103	1330	42069	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
831117	1530	42070	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
831202	1300	42071	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
831213	1030	42072	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
831215	1530	42073	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
831217	1130	42074	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
831219	1200	42075	20<W	20<W	20<W	100<W	100<W	100<W	100<W	100<W	100<W	500<W
MAXIMUM		20	20	20	700	100	100	1200	100	400	500	
ARITH MEAN		20<A	20<A	20<A	147<A	100<A	100<A	147<A	100<A	134<A	500<A	
GEOM MEAN		20<A	20<A	20<A	122<A	100<A	100<A	114<A	100<A	121<A	500<A	
MINIMUM		20	20	20	100	100	100	100	100	100	500	
STD DEV (GEOM *)		0<A	0<A	0<A	134<A	0<A	0<A	205<A	0<A	79<A	0<A	
# SAMP IN STATISTICS		32	32	32	32	32	32	32	32	32	32	
% SAMP (EXCLUDED)												

( CONT D )

## 1983 WATER QUALITY DATA REGION 1

43

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

**INTERIM		TEST-NAME:	P324DP	P324ST	P4CLFN CHLORO FENVIN	P4DEMT	P4DIAZ	P4DIHE	P4DURS	P4ETHI	P4GUTH	P4LEPO
SAMPLE DATE	HOUR	SAMPLE NUMBER	2,4-DP NG/L	2,4,5-T NG/L	PHOS NG/L	DEMETON NG/L	DIAZINON NG/L	DIMETHOK NG/L	DURSBAN NG/L	ETHION NG/L	GUTHION NG/L	LEPTPHOS NG/L
YYMMDD	LHT											
830104	1500	42000	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830222	1500	42001	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830225	1600	42003	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830304	1400	42005	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830328	1300	42006	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830331	1300	42007	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830401	1300	42008	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830410	0930	42009	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830413	1530	42016	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830415	1530	42020	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830418	0600	42025	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830421	0630	42033	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830505	1530	42040	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830606	1130	42045	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830627	0800	42048	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830721	1000	42049	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830731	1030	42050	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
	1700	42051	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830801	0800	42052	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
	1730	42053	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830813	0630	42061	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830814	0630	42063	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830909	1300	42066	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
830926	1530	42067	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
831018	1350	42068	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
831103	1330	42069	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
831117	1530	42070	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
831202	1300	42071	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
831213	1030	42072	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
831215	1530	42073	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
831217	1130	42074	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
831219	1200	42075	100<W	100<W	1000<W	1000<W	50<W	250<W	100<W	100<W	5000<W	1000<W
MAXIMUM			100	100	1000	1000	50	250	100	100	5000	1000
ARITH MEAN			100<A	100<A	1000<A	1000<A	50<A	250<A	100<A	100<A	5000<A	1000<A
GEOM MEAN			100<A	100<A	1000<A	1000<A	50<A	250<A	100<A	100<A	5000<A	1000<A
MINIMUM			100	100	1000	1000	50	250	100	100	5000	1000
STD DEV (GEOM *)			0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A
# SAMP IN STATISTICS			32	32	32	32	32	32	32	32	32	32
% SAMP (EXCLUDED)												

(CONTD.)

## 1983 WATER QUALITY DATA REGION 1

44

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

**INTERIM TEST-NAME:		P4MALA	P4PALO	P4PARA	P4PHET	P6CARB	P6CARY	P6CYCL	P6EPTM	P6MOLI	P6PEBU	
SAMPLE DATE	HHMM	SAMPLE NUMBER	MALATHION NG/L	PHOSLONE NG/L	PARTHION NG/L	PHOSMET NG/L	CARBO-FURAN NG/L	CARBARYL NG/L	CYCLOATE NG/L	EPTAM NG/L	MOLINATE NG/L	PEBULATE NG/L
830104	1500	42000	100<W	500<W	50<W	2000<W						
830222	1500	42001	100<W	500<W	50<W	2000<W						
830225	1600	42003	100<W	500<W	50<W	2000<W						
830304	1400	42005	100<W	500<W	50<W	2000<W						
830328	1300	42006	100<W	500<W	50<W	2000<W						
830331	1300	42007	100<W	500<W	50<W	2000<W						
830401	1300	42008	100<W	500<W	50<W	2000<W						
830410	0930	42009	100<W	500<W	50<W	2000<W						
830413	1530	42016	100<W	500<W	50<W	2000<W						
830415	1530	42020	100<W	500<W	50<W	2000<W						
830418	0600	42025	100<W	500<W	50<W	2000<W						
830421	0630	42033	100<W	500<W	50<W	2000<W						
830505	1530	42040	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830606	1130	42045	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830627	0800	42048	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830721	1000	42049	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830731	1030	42050	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
	1700	42051	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830801	0800	42052	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
	1730	42053	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830813	0630	42061	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830814	0630	42063	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830909	1300	42066	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
830926	1530	42067	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
831018	1350	42068		500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
831103	1330	42069	100<W	500<W	50<W	2000<W	1000<W	1000<W	1000<W	1000<W	1000<W	1000<W
831117	1530	42070	100<W	500<W	50<W	2000<W						
831202	1300	42071	100<W	500<W	50<W	2000<W						
831213	1030	42072		500<W	50<W	2000<W						
831215	1530	42073	100<W	500<W	50<W	2000<W						
831217	1130	42074	100<W	500<W	50<W	2000<W						
831219	1200	42075	100<W	500<W	50<W	2000<W						
MAXIMUM			100	500	50	2000	1000	1000	1000	1000	1000	1000
ARITH MEAN			100<A	500<A	50<A	2000<A	1000<A	1000<A	1000<A	1000<A	1000<A	1000<A
GEOM MEAN			100<A	500<A	50<A	2000<A	1000<A	1000<A	1000<A	1000<A	1000<A	1000<A
MINIMUM			100	500	50	2000	1000	1000	1000	1000	1000	1000
STD DEV (GEOM *)			0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A
# SAMP IN STATISTICS			30	32	32	32	14	14	14	14	14	14
% SAMP (EXCLUDED)												

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

45

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*=INTERIM		TEST-NAME:	P6SUTN	P6VERN	RSF	RSP	TURB	ZNUT
SAMPLE								
DATE	HOOR	SAMPLE	SUTAN	VERNATE	RESIDUE	RESIDUE	TURB'ITY	ZINC
YYMMDD	LMT	NUMBER	NG/L	NG/L	FILTERED	PARTIC.	FTU	UNF.TOT.
					MG/L	MG/L		MG/L
								AS ZN
830104	1500	42000				32.790		
830124	1030	35001				8.300		
830222	1500	42001			465.7	111.000	11.80	
830225	1530	42002				123.000		
	1600	42003				21.400		
830226	1400	42004				31.500		
830228	0935	35017			354.7	25.800	32.00	0.0100<
830304	1400	42005				77.800		
830328	0945	35034			416.2	8.800	13.00	0.0100<
	1300	42006				128.000		
830331	1300	42007				32.200		
830401	1300	42008				32.900		
830410	0930	42009				267.000		
	1430	42010				308.000		
830411	0830	42011				288.000		
	1600	42012				336.000		
830412	0800	42013				184.000		
	1530	42014				152.000		
830413	0600	42015				86.900		
	1530	42016				117.000		
830414	0600	42017				87.500		
	1530	42018				88.900		
830415	0600	42019				222.000		
	1530	42020				281.000		
830416	0900	42021				554.000		
	1530	42022				543.000		
830417	1130	42023				321.000		
	1530	42024				239.000		
830418	0600	42025				54.900		
	1530	42026				54.200		
830419	0600	42027				52.600		
	1530	42028				58.900		
830420	0600	42029				34.900		
	1530	42030				40.100		
830421	0600	42031				65.800		
	0630	42033				58.900		
	1530	42032				93.800		
830422	1530	42034				43.400		
830423	0900	42035				60.400		
	1500	42036				64.400		
830425	0947	35051			395.4	44.400	35.00	0.0300

## 1983 WATER QUALITY DATA REGION 1

46

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72

U T M: 17 0391175.0 4689600.0 4

REGION: 01

DISTANCE: 14.484

**INTERIM TEST-NAME:		P6SUTN	P6VERN	RSF	RSP	TURB	ZNUT
SAMPLE DATE	HHMM	SUTAN	VERNATE	RESIDUE	RESIDUE	TURB*ITY	ZINC
YYMMDD	LMT	NUMBER	NG/L	MG/L	MG/L	FTU	UNF.TOT. MG/L AS ZN
830501	0900	42037			41.000		
	1500	42038			52.900		
830503	0900	42039			700.000		
830505	1530	42040	1000<W		177.000		
830521	0900	42041			65.600		
830523	1800	42042			72.200		
830524	1055	35068		390.2	326.000	282.00	0.0400
830526	1600	42043			58.200		
830528	1600	42044			818.000		
830606	1130	42045	1000<W	1000<W	58.400		
830608	0900	42046			26.300		
830610	1200	42047			84.400		
830627	0800	42048	1000<W	1000<W	56.300		
	1000	35085		326.6	45.200	48.00	0.0100<
830721	1000	42049	1000<W		43.900		
830725	0945	35102		392.3	55.800	83.00	0.0100
830731	1030	42050	1000<W		754.000		
	1700	42051	1000<W		664.000		
830801	0800	42052	1000<W		194.000		
	1730	42053	1000<W		402.000		
830802	0630	42054			326.000		
830803	0630	42056			223.000		
	1730	42057			104.000		
830804	0630	42058			174.000		
	1730	42059			160.000		
830805	1800	42060			94.200		
830813	0630	42061	1000<W	1000<W			
	1630	42062			189.000		
830814	0630	42063	1000<W	1000<W			
	1330	42064			168.000		
830816	1900	42065			98.900		
830822	1009	35118		411.7	42.900	62.00	0.0100
830909	1300	42066	1000<W	1000<W	53.800		
830926	0958	35135		389.0	57.800	79.00	0.009
	1530	42067	1000<W	1000<W	62.300		
831018	1350	42068	1000<W	1000<W	46.000		
831024	1000	35152		378.1	23.0	37.00	0.007
831103	1330	42069	1000<W	1000<W			
831117	1530	42070		371.0	42.300		0.006
831128	1010	35169		434.3	17.700	26.00	0.006
831202	1300	42071			10.300		

( CONTD )

## 1983 WATER QUALITY DATA REGION 1

47

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT BRIDGE COUNTY RD 34 PRAIRIE SIDING  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0013-007-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 10.74 LONG: 082 19 16.72 U T M: 17 0391175.0 4689600.0 4 REGION: 01 DISTANCE: 14.484

*INTERIM TEST-NAME:		P6SUTN	P6VERN	RSF	RSP	TURB	ZNUT
SAMPLE				RESIDUE	RESIDUE		ZINC
DATE	HR	SUTAN	VERN	RESIDUE	RESIDUE	TURB'ITY	UNF.TOT.
YYMMDD	LMT	NG/L	NG/L	MG/L	MG/L	FTU	MG/L
							AS ZN
831213	1030	42072			303.000		
831215	1530	42073			277.000		
831217	1130	42074			26.300		
831219	1200	42075			33.400		
MAXIMUM		1000	1000	465.7	818.000	282.00	0.0400
ARITH MEAN		1000<A	1000<A	393.8	152.6	64.44	0.015
GEOM MEAN		1000<A	1000<A	392.2	89.5	42.92	
MINIMUM		1000	1000	326.6	8.300	11.80	0.006
STD DEV (GEOM *)		0<A	0<A	36.3	176.3	75.98	
# SAMP IN STATISTICS		14	8	12	83	11	8
% SAMP (EXCLUDED)							27



## 1983 WATER QUALITY DATA REGION 1

48

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT PARK STREET BRIDGE, ST MARYS  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD005

STATION ID: 04-0013-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 15 18.72 LONG: 081 08 43.33 U T M: 17 0488200.0 4788959.0 4 REGION: 01 DISTANCE: 254.752

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FNFLOW	FNSTRC	FNTEMP	NNHTFR NH3-N TOTAL	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N
830201	1015	33005	0.30	0101	51.500	740.0	460	552	5.240	6	0.0	0.395
830221	1015	33031	0.30	0101	16.500	496.0	810	1500	28.200	6	0.0	0.245
830321	1015	33057	0.30	0101	23.000	610.0	110	10AID	8.110	6	1.0	0.025
830418	0950	33082	0.30	0101	21.000	585.0	200	90AID	17.000	6	3.0	0.030
830516	1000	33110	0.30	0101	18.500	570.0	156	12	11.400	6	10.0	0.010
830620	1000	33138	0.30	0101	21.500	494.0	68	16	5.270	6	19.0	0.030
830719	1000	33166	0.30	0101	26.000	510.0	472	192	2.200	6	24.0	0.055
830816	1000	33194	0.30	0101	18.500	560.0	350	280	7.370	6	21.0	0.035
830920	1000	33222	0.30	0101	29.500	500.0			6.270	6	20.0	0.065
831017	1000	33350	0.30	0101	21.000	665.0			9.050	6	10.0	0.010
831122	1000	33378	0.30	0101	21.500	690.0			19.900	6	5.0	0.015
831220	1000	33404	0.30	0101	22.000	685.0	110	430	14.200	6	0.0	0.080
MAXIMUM		0.30			51.500	740.0	810	552	28.200		24.0	0.395
ARITH MEAN		0.30			24.208	592.1	304	198	11.184		9.4	0.083
GEOM MEAN					23.094	586.5	227		9.090			0.042
MINIMUM		0.30			16.500	494.0	68	10	2.200		0.0	0.010
STD DEV (GEOM *)					9.255	86.0	2*		7.460			0.117
# SAMP IN STATISTICS		12			12	12	9	8	12		12	12
% SAMP (EXCLUDED)								11				

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB
SAMPLE DATE YYMMDD	HOURL LMT	N02-N FIL.REAC MG/L AS N	N03-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830201	1015	33005	0.036	5.200	0.890	8.15	0.041	0.064	4<	2.3
830221	1015	33031	0.030	5.070	1.160	8.00	0.090	0.158	4<	21.3
830321	1015	33057	0.024	4.280	0.740	8.33	0.066	0.087	4	5.6
830418	0950	33082	0.019	5.900	0.640	8.22	0.010	0.030	4<	3.3
830516	1000	33110	0.051	5.000	0.690	8.23	0.010	0.038	4<	4.4
830620	1000	33138	0.035	1.920	0.770	8.41	0.001	0.036	4<	5.0
830719	1000	33166	0.018	1.760	0.930	8.28	0.014	0.077	4<	13.7
830816	1000	33194	0.034	3.800	0.880	8.32	0.025	0.092	4	20.0
830920	1000	33222	0.032	1.440	0.940	8.27	0.012	0.085		16.6
831017	1000	33350	0.017	5.780	0.900	8.28	0.030	0.048		9.6
831122	1000	33378	0.026	6.700	0.690	8.12	0.035	0.057		7.4
831220	1000	33404	0.022	6.730	0.620	8.02	0.030	0.052	4<	11.8

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

49

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT PARK STREET BRIDGE, ST MARYS  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD005

STATION ID: 04-0013-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: -5 15 18.72 LONG: 081 08 43.33

U T M: 17 0488200.0 4788950.0 4

REGION: 01

DISTANCE: 254.752

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR K'DAHL N	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB
		NO2-N FIL.REAC	NO3-N FIL.REAC	TOTAL UNF.REAC		P04 FIL.REAC	PHOSPHOR UNF.TOT.			
SAMPLE DATE HOUR	SAMPLE YYMMDD LMT	MG/L AS N	MG/L AS N	MG/L AS N	PH	MG/L AS P	MG/L AS P	HF CNT /100ML	RESIDUE PARTIC. MG/L	TURB'ITY FTU
MAXIMUM		0.051	6.730	1.160	8.41	0.090	0.158	4	21.3	13.70
ARITH MEAN		0.029	4.465	0.821	8.22	0.030	0.069	4	10.1	7.77
GEOM MEAN		0.027	3.985	0.808	8.22	0.020	0.062		8.1	6.69
MINIMUM		0.017	1.440	0.620	8.00	0.001	0.030	4	2.3	3.70
STD DEV (GEOM *)		0.010	1.871	0.157	0.12	0.026	0.035		6.6	5.25
# SAMP IN STATISTICS		12	12	12	12	12	12	2	12	3
% SAMP (EXCLUDED)								77		

## 1983 WATER QUALITY DATA REGION 1

50

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT DUNDAS STREET WOODSTOCK  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD012

STATION ID: 04-0013-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 07 36.34 LONG: 080 46 45.59 U T M: 17 0517950.0 4774700.0 4 REGION: 01 DISTANCE: 258.132

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCHF	FSMF
					BOD					FECAL	FECAL
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE DATE	HHMM	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03						
830203	1310	33023	0.30	0101	146.0	4.29	34.500	479.0	0.0100	11.0	1110
830222	1310	33049	0.30	0101	210.0	3.87	35.000	615.0	0.0100	11.0	380
830322	1310	33075	0.30	0101	250.0	2.20	51.000	745.0	0.0100<	13.0	560
830419	1310	33103	0.30	0101	225.0	1.88	33.500	625.0	0.0100	11.0	184
830518	1310	33131	0.30	0101	209.0	4.25	41.000	620.0	0.0100	12.0	12
830622	1310	33159	0.30	0101	247.0	3.23	59.000	765.0	0.0100	6.0	92
830720	1310	33187	0.30	0101	217.0	3.06	53.000	690.0	0.0100<	7.0	328
830817	1310	33215	0.30	0101	190.0	2.98	26.000	535.0	0.0100<	9.0	400
830921	1310	33343	0.30	0101	186.0	4.11	45.500	595.0	0.008	7.0	
831018	1310	33371	0.30	0101	215.0	3.52	49.500	690.0	0.004	10.0	
831123	1310	33397	0.30	0101	274.0	3.58	49.500	760.0	0.005	9.0	
831221	1310	33423	0.30	0101	284.0	1.92	44.000	785.0	0.004	10.0	420
		MAXIMUM	0.30		284.0	4.29	59.000	785.0	0.0100	13.0	1110
		ARITH MEAN	0.30		221.1	3.24	43.458	658.7	0.008	9.7	387
		GEOM MEAN			217.8	3.12	42.397	651.8		9.4	240
		MINIMUM	0.30		146.0	1.88	26.000	479.0	0.004	6.0	12
		STD DEV (GEOM *)			38.7	0.87	9.671	96.8		2.1	4*
		# SAMP IN STATISTICS	12		12	12	12	12	9	12	9
		% SAMP (EXCLUDED)						25			11

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
					NH3-N			K'DAHL N			
					TOTAL	N02-N	N03-N	TOTAL	LEAD		P04
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P
SAMPLE DATE	HHMM	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C						
830203	1310	33023	16.600	3 6	1.5	0.435	0.105	3.300	1.150	0.030<	7.67
830222	1310	33049	3.440	6	3.0	0.165	0.420	4.730	1.600	0.030<	7.85
830322	1310	33075	1.450	6	0.0	0.080	0.128	6.500	0.720	0.030<	8.12
830419	1310	33103	5.620	6	8.0	0.080	0.049	5.200	0.990	0.030<	8.20
830518	1310	33131	2.280	6	14.5	0.030	0.115	5.100	1.220	0.030<	8.26
830622	1310	33159	0.887	6	22.0	0.585	0.136	3.800	1.600	0.030<	7.80
830720	1310	33187	0.804	6	26.0	0.160	0.098	3.700	0.570	0.030<	7.82
830817	1310	33215	7.460	6	21.0	0.140	0.098	2.600	1.240	0.030<	7.91
830921	1310	33343	2.190	6	16.0	0.345	0.113	3.400	0.970	0.007	7.86
831018	1310	33371	1.800	6	12.0	0.340	0.079	3.470	0.980	0.005	7.99
831123	1310	33397	4.590	6	5.5	0.240	0.049	5.150	1.110	0.008	7.99
831221	1310	33423	2.950	6	0.0	0.145	0.024	7.380	0.780	0.003<	7.95

( CONTD )

## 1983 WATER QUALITY DATA REGION 1

51

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT DUNDAS STREET WOODSTOCK  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD012

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STATION ID: 04-0013-016-02

STORET CODE: 02  
 003  
 2870

LAT: 43 07 36.34 LONG: 080 46 45.59 U T M: 17 0517950.0 4774700.0 4 REGION: 01 DISTANCE: 258.132

*=-INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR PO4 FIL.REAC MG/L AS P
SAMPLE DATE YYMMDD	DATE HOUR LMT	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH

MAXIMUM		16.600		26.0	0.585	0.420	7.380	1.600	0.008	8.26	0.193
ARITH MEAN		4.173		10.8	0.229	0.118	4.527	1.077	0.007	7.95	0.076
GEOM MEAN		2.861			0.173	0.093	4.336	1.034		7.95	0.048
MINIMUM		0.804		0.0	0.030	0.024	2.600	0.570	0.005	7.67	0.003
STD DEV (GEOM *)		4.393			0.166	0.101	1.416	0.316		0.17	0.054
# SAMP IN STATISTICS		12		12	12	12	12	12	3	12	12
% SAMP (EXCLUDED)									75		

*=-INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TCHF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB	ZNUT
SAMPLE DATE YYMMDD	DATE HOUR LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TOTAL MF CNT /100ML	TOTAL MF BCKGRD CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN

830203	1310	33023	0.215	20	22.9	6200C	54000	24.00	0.0200
830222	1310	33049	0.260	4<	8.5	1500	8200	8.20	0.0100<
830322	1310	33075	0.111	4	13.7	4200	4500	11.80	0.0100<
830419	1310	33103	0.120	4	18.7	1000	3200	15.70	0.0100
830518	1310	33131	0.151	4<	19.0	230C	4000	14.90	0.0100<
830622	1310	33159	0.205	4<	12.0	2300	20000	6.50	0.0100<
830720	1310	33187	0.140	4<	18.6	2700C	110000	11.50	0.0100<
830817	1310	33215	0.124	4	13.6	1300C	65000	8.60	0.0100
830921	1310	33343	0.235		36.0			22.00	0.013
831018	1310	33371	0.206		25.9			12.60	0.008
831123	1310	33397	0.182		39.5			27.00	0.012
831221	1310	33423	0.111	8	18.8	2100	4400	9.10	0.009

MAXIMUM		0.260	20	39.5	6200	110000	27.00	0.0200
ARITH MEAN		0.172	8	20.6	2392	30367	14.32	0.012
GEOM MEAN		0.164		18.8	1748	13612	13.02	
MINIMUM		0.111	4	8.5	230	3200	6.50	0.008
STD DEV (GEOM *)		0.052		9.3	3*	4*	6.68	
# SAMP IN STATISTICS		12	5	12	9	9	12	7
% SAMP (EXCLUDED)			44					41

## 1983 WATER QUALITY DATA REGION 1

52

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT FIRST ROAD SOUTH OF INNERKIP  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD021

STATION ID: 04-0013-018-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 12 11.14 LONG: 080 41 24.44 U T M: 17 0525175.0 4783200.0 4 REGION: 01 DISTANCE: 272.133

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR
				CHLORIDE	CONDUCT.	FECAL	FECAL				NH3-N
SAMPLE			PROJECT	UNF.REAC	25C	COLIFORM	STREPCUS	STREAM		WATER	FIL.REAC
DATE	HOUR	SAMPLE	SUB-PROJ	MG/L	UMHO/CM	MF	MF	FLOW		TEMP	MG/L
YYMMDD	LMT	NUMBER	CODE	AS CL-	AT 25 C	CNT	CNT	M3	STREAM	DEG.C	AS N
						/100ML	/100ML	/S	COND.		
830203	1230	33021	0101	13.500	269.0	9800	26000	12.500	6 3	0.0	1.100
830222	1230	33047	0101	19.500	590.0	370	390	2.120	6	2.0	0.175
830322	1230	33073	0101	26.000	710.0	100	10AID	1.300	6	1.0	0.025
830419	1230	33101	0101	33.500	700.0	136	40	3.090	6	7.0	0.650
830518	1230	33129	0101	25.500	690.0	16	12	0.769	6	11.0	0.015
830622	1230	33157	0101	29.500	715.0	68	28	0.280	6	21.5	0.020
830720	1230	33185	0101	33.000	800.0	480	144	0.056	6	25.0	0.010
830817	1230	33213	0101	25.500	720.0	1080	284	0.683	6	21.0	0.010
830921	1220	33341	0101	34.000	730.0			1.450	6	16.0	0.010
831018	1220	33369	0101	31.000	790.0			0.645	6	10.0	0.010
831123	1220	33395	0101	39.500	790.0			2.040	6	4.5	0.200
831221	1220	33421	0101	53.500	900.0	20AID	100	1.300	4	0.0	0.055
MAXIMUM		0.30		53.500	900.0	9800	390	12.500		25.0	1.100
ARITH MEAN		0.30		30.333	700.3	1341	126	2.186		9.9	0.190
GEOM MEAN				28.783	676.5	202		1.067			0.047
MINIMUM		0.30		13.500	269.0	16	10	0.056		0.0	0.010
STD DEV (GEOM *)				10.084	155.4	8*		3.359			0.340
# SAMP IN STATISTICS		12		12	12	9		12		12	12
% SAMP (EXCLUDED)							11				

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB
SAMPLE DATE YYMMDD	HOUR LMT	N02-N FIL.REAC MG/L AS N	N03-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830203	1230	33021	0.163	2.340	2.650	7.45	0.380	0.630	52	79.3
830222	1230	33047	0.105	3.950	1.090	8.01	0.129	0.182	4<	6.8
830322	1230	33073	0.015	5.500	0.610	8.28	0.024	0.043	4<	15.0
830419	1230	33101	0.033	5.600	1.420	8.08	0.077	0.131	4<	5.0
830518	1230	33129	0.054	4.000	0.670	8.31	0.039	0.061	12	1.8
830622	1230	33157	0.038	1.350	0.720	8.44	0.011	0.036	4<	2.9
830720	1230	33185	0.026	1.190	0.690	8.38	0.045	0.190	4<	20.0
830817	1230	33213	0.013	3.100	0.550	8.26	0.027	0.057	4<	3.3
830921	1220	33341	0.021	2.500	0.710	7.99	0.013	0.039		5.1
831018	1220	33369	0.021	3.630	0.610	8.24	0.039	0.054		3.4
831123	1220	33395	0.043	5.260	0.800	8.02	0.061	0.104		5.4
831221	1220	33421	0.017	8.780	0.530	7.79	0.042	0.073	4<	14.0

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

53

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT FIRST ROAD SOUTH OF INNERKIP  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD021

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STATION ID: 04-0013-018-02

STORET CODE: 02  
 003  
 2870

LAT: 43 12 11.14 LONG: 080 41 24.44 U T M: 17 0525175.0 4783200.0 4 REGION: 01 DISTANCE: 272.133

*INTERIM TEST-NAME:		NNO2FR	NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
		NO2-N	NO3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN		
		FIL.REAC	FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE	TURB'ITY
SAMPLE		MG/L	MG/L	MG/L		MG/L	MG/L	MF	PARTIC.	FTU
DATE	SAHPLE	AS N	AS N	AS N	PH	AS P	AS P	CNT	MG/L	
YYMMDD LMT	NUMBER							/100ML		
	MAXIMUM	0.163	8.780	2.650	8.44	0.380	0.630	52	79.3	81.00
	ARITH MEAN	0.046	3.933	0.921	8.10	0.074	0.133	32	13.5	10.81
	GEOM MEAN	0.033	3.399	0.814	8.10	0.045	0.089		7.2	4.99
	MINIMUM	0.013	1.190	0.530	7.45	0.011	0.036	12	1.8	1.50
	STD DEV (GEOM #)	0.045	2.133	0.601	0.28	0.102	0.165		21.5	22.23
	# SAMP IN STATISTICS	12	12	12	12	12	12	2	12	12
	% SAMP (EXCLUDED)							77		

## 1983 WATER QUALITY DATA REGION 1

54

B.O.W./ SITE: AVON RIVER  
 SAMPLE POINT: AT LORNE AVE STRATFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD018

STATION ID: 04-0013-025-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 21 53.73 LONG: 081 01 04.42

U T M: 17 0498550.0 4801125.0 4

REGION: 01

DISTANCE: 278.570

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CRUT	CUUT	DO	FCMF
					BOD						FECAL
				ALK	5 DAY	CHLORIDE	CONDUCT.	CHROMIUM	COPPER	DISSOLVED	COLIFORM
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	UNF.TOT.	OXYGEN	MF
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L	CNT
				AS CAC03	AS O	AS CL-	AT 25 C	AS CR	AS CU	AS O	/100ML
SAMPLE DATE	HOUR	SAMPLE	SAMPLE	PROJECT							
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ							
			M	CODE							
830201	1145	33008	0.30	0101	266.0	9.20	132.000	1150.0	0.02 <	0.010	11.0
830221	1145	33034	0.30	0101	190.0	5.43	36.000	580.0	0.0200<	0.0100	9.0
830321	1145	33060	0.30	0101	259.0	3.81	45.500	760.0	0.0200<	0.0100	9.0
830418	1145	33086	0.30	0101	243.0	1.32	69.000	770.0	0.0200<	0.0100<	11.0
830516	1135	33114	0.30	0101	262.0	6.45	55.000	835.0	0.0200	0.0100<	8.0
830620	1135	33142	0.30	0101	243.0	5.02	74.000	910.0	0.0020<	0.0100	8.0
830719	1135	33170	0.30	0101	218.0	4.85	92.000	1050.0	0.0200	0.0100	8.0
830816	1135	33198	0.30	0101	258.0	2.95	48.000	800.0	0.0200<	0.0100	9.0
830920	1135	33226	0.30	0101	202.0	6.32	70.500	895.0	0.002 <	0.025	7.0
831017	1135	33354	0.30	0101	260.0	3.96	41.000	735.0	0.003	0.018	9.0
831122	1135	33382	0.30	0101	295.0	4.06	34.000	740.0	0.008	0.019	9.0
831220	1135	33408	0.30	0101	291.0	2.70	54.500	850.0	0.004	0.012	12.0
		MAXIMUM	0.30		295.0	9.20	132.000	1150.0	0.0200	0.025	12.0
		ARITH MEAN	0.30		248.9	4.67	62.625	839.6	0.011	0.013	9.2
		GEOM MEAN			246.9	4.22	57.956	827.5			9.1
		MINIMUM	0.30		190.0	1.32	34.000	580.0	0.003	0.010	7.0
		STD DEV (GEOM *)			32.1	2.06	27.855	150.7			1.5
		# SAMP IN STATISTICS	12		12	12	12	12	5	10	12
		% SAMP (EXCLUDED)							58	16	11
*=INTERIM TEST-NAME:		FMSF	FWFLOW	FWSTRC	FWTEMP	NIUT	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT
		FECAL					NH3-N			K'DAHL N	
		STREPCUS	STREAM			NICKEL	TOTAL	NO2-N	NO3-N	TOTAL	LEAD
		MF	FLOW		WATER	UNF.TOT.	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.
		CNT	M3	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		/100ML	/S	COND.	DEG.C	AS NI	AS N	AS N	AS N	AS N	AS PB
SAMPLE DATE	HOUR	SAMPLE									
YYMMDD	LMT	NUMBER									
830201	1145	33008	600>	0.915	6	3.0	0.020<	3.100	0.230	3.400	0.030<
830221	1145	33034	6200	3.220	6	3.0	0.020	0.950	0.033	3.570	0.030<
830321	1145	33060	1200	1.450	6	2.0	0.020	0.850	0.049	3.750	0.030<
830418	1145	33086	1000	2.600	6	6.0	0.020<	0.490	0.036	4.500	0.030<
830516	1135	33114	20AID	1.340	6	11.0	0.020<	1.440	0.355	3.800	0.030<
830620	1135	33142	24	0.497	6	21.0	0.020<	0.010	0.690	3.100	0.030<
830719	1135	33170	144	0.397	8	24.0	0.030	0.815	0.700	3.700	0.030<
830816	1135	33198	90AID	0.985	6	20.0	0.030	0.495	0.390	3.400	0.030<
830920	1135	33226		0.773	6	19.5	0.013	0.010		2.400	0.003<
831017	1135	33354		1.300	6	11.0	0.006	0.565	0.220	3.580	0.006
831122	1135	33382		4.220	6	6.0	0.008	0.380	0.167	3.780	0.019
831220	1135	33408	430	1.520	6	1.0	0.011	0.645	0.195	5.100	0.021

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

55

B.O.W./ SITE: AVON RIVER  
 SAMPLE POINT: AT LORNE AVE STRATFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD018

STATION ID: 04-0013-025-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 21 53.73 LONG: 081 01 04.42

U T M: 17 0498550.0 4801125.0 4

REGION: 01

DISTANCE: 278.570

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS MF CNT /100ML	FWFLOW STREAM FLOW M3 /S	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	NIUT NICKEL UNF.TOT. MG/L AS NI	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NN02FR NO2-N FIL.REAC MG/L AS N	NN03FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB
MAXIMUM		6200	4.220		24.0	0.030	3.100	0.700	5.100	3.400	0.021
ARITH MEAN		1138	1.601		10.6	0.017	0.812	0.279	3.676	1.575	0.015
GEOM MEAN			1.276		7.1		0.383	0.180	3.620	1.440	
MINIMUM		20	0.397		1.0	0.006	0.010	0.033	2.400	0.740	0.006
STD DEV (GEOM *)			1.163		8.4		0.821	0.237	0.664	0.741	
# SAMP IN STATISTICS		8	12		12	8	12	11	12	12	3
% SAMP (EXCLUDED)		11				33					75

*INTERIM TEST-NAME:		PH	PP04FR PO4 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L	SS04UR SULPHATE UNF.REAC MG/L AS SO4	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
830201	1145	33008	7.94	0.100	0.146	36	3.9	71.000	32900>	60000	4.00	0.010
830221	1145	33034	7.83	0.100	0.340	12	17.6	43.000	13000	62000	18.10	0.0300
830321	1145	33060	7.38	0.101	0.153	20	10.0	73.500	42000	48000	6.80	0.0300
830418	1145	33086	7.87	0.001	0.099	12	14.1	51.000	17000	19000	19.10	0.0200
830516	1135	33114	7.90	0.001	0.101	4<	9.0	80.000	1010C	10900	9.10	0.0200
830620	1135	33142	8.01	0.001	0.144	4<	5.9	14.000	1200C	29700	3.30	0.0100
830719	1135	33170	7.86	0.089	0.180	4<	8.3	17.300	2600C	76000	3.40	0.0200
830816	1135	33198	7.94	0.098	0.178	8	9.2		2900C	46000	8.10	0.0200
830920	1135	33226	7.70	0.080	0.140		4.6				2.50	0.011
831017	1135	33354	7.94	0.140	0.190		19.8	75.500			15.20	0.029
831122	1135	33382	7.96	0.062	0.235		81.3	56.000			38.00	0.056
831220	1135	33408	7.76	0.001	0.117	4<	9.1	70.000	4500	8100	5.70	0.018
MAXIMUM		8.01	0.140	0.340	36	81.3	80.000	42000	76000	38.00	0.056	
ARITH MEAN		7.84	0.064	0.169	18	16.1	55.130	10526	39967	11.11	0.023	
GEOM MEAN		7.84	0.021	0.159		10.8	48.052		31564	7.95	0.020	
MINIMUM		7.38	0.001	0.099	8	3.9	14.000	1010	8100	2.50	0.010	
STD DEV (GEOM *)		0.17	0.050	0.067		21.1	23.878		2*	10.26	0.013	
# SAMP IN STATISTICS		12	12	12	5	12	10	8	9	12	12	
% SAMP (EXCLUDED)					44			11				



## 56

STATION ID: 04-0013-026-02

STORET CODE: 02  
003  
2870

DISTANCE: 7.725

*INTERIM		TEST-NAME:	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR	NNO3FR	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	LEAD	P04 FIL.REAC MG/L AS P
830124	1140	35002	100<	4	0.0	0.650	0.043	5.600	2.900	0.030<	7.76	0.250
830228	1025	35018	36	6	3.0	0.275	0.026	6.300	1.640	0.030<	7.96	0.166
830328	1015	35035	800	6	3.0	0.265	0.160	9.200	3.500	0.030<	8.00	0.260
830425	1039	35052	30AID	6	9.0	0.475	0.059	6.200	1.840	0.030<	7.98	0.114
*830524	1116	35069	16	6	17.5	2.550	0.144	2.700	2.950	0.030<	7.82	0.930
830627	1057	35086	20AID	6	27.0	0.005	0.130	3.100	1.950	0.030<	7.57	0.250
830725	1100	35103	48	6	26.0	0.295	0.140	1.680	1.140	0.030<	7.87	0.082
830822	1052	35119	172	6 9	26.0	0.375	0.172	0.830	1.700	0.030<	7.72	0.066
830926	1048	35136		6	15.0	0.285	0.111	6.040	2.150	0.003<		0.107
831024	1048	35153		6	12.0	0.165	0.046	1.860	1.500	0.005	7.48	0.009
831128	1120	35170		6	7.0	0.355	0.250	3.200	6.300	0.003<	7.81	0.545

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

57

B.O.W./ SITE: TILBURY CREEK  
 SAMPLE POINT: 1 MILE SOUTHWEST OF TILBURY STATION  
 STATION TYPE: RIVER

STATION ID: 04-0013-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 16 34.52 LONG: 082 26 51.52 U T M: 17 0380625.0 4681250.0 4 REGION: 01 DISTANCE: 7.725

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS MF	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC MG/L AS N	NN03FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PP04FR P04 FIL.REAC MG/L AS P
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	CNT /100ML	STREAM COND.	WATER TEMP DEG.C						
		MAXIMUM	800		27.0	2.550	0.250	9.200	6.300	0.005	0.930
		ARITH MEAN	160		13.2	0.518	0.116	4.246	2.506	0.005	0.253
		GEOM MEAN				0.269	0.096	3.458	2.235		0.149
		MINIMUM	16		0.0	0.005	0.026	0.830	1.140	0.005	0.009
		STD DEV (GEOM *)				0.694	0.068	2.576	1.445		0.268
		# SAMP IN STATISTICS	7		11	11	11	11	1	10	11
		% SAMP (EXCLUDED)	12						90		

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG. MF	RSP	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L					
830124	1140	35002	0.420	24	8.8	1000<	18000	16.30	0.0200
830228	1025	35018	0.236	4<	17.3	1000	5300	35.00	0.0100<
830328	1015	35035	0.585	20<	140.4	28000C	400000	685.00	0.1500
830425	1039	35052	0.234	4	65.8	3000AID	70000	96.00	0.0400
830524	1116	35069	1.100	8	45.8	11000	59000	51.00	0.0100
830627	1057	35086	0.380	4<	43.5	200C	31000	50.00	0.0100<
830725	1100	35103	0.149	4<	90.3	300C	137000	110.00	0.0200
830822	1052	35119	0.233	4<	57.9	1400C	53000	60.00	0.0300
830926	1048	35136	0.310		157.8			262.00	0.034
831024	1048	35153	0.306		72.9			139.00	0.034
831128	1120	35170	1.680		588.8			2160.00	0.350
		MAXIMUM	1.680	24	588.8	28000	400000	2160.00	0.350
		ARITH MEAN	0.512	12	117.2	6414	96662	333.12	0.076
		GEOM MEAN	0.390		65.7		49401	115.69	
		MINIMUM	0.149	4	8.8	200	5300	16.30	0.0100
		STD DEV (GEOM *)	0.468		163.0		4*	635.11	
		# SAMP IN STATISTICS	11	3	11	7	8	11	9
		% SAMP (EXCLUDED)		62		12			18

## 1983 WATER QUALITY DATA REGION 1

58

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX COUNTY ROAD 42 LONDON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE003

STATION ID: 04-0013-027-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 02 29.34 LONG: 081 11 41.61

U T M: 17 0484125.0 4765225.0 4

REGION: 01

DISTANCE: 217.416

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR
						FECAL	FECAL				NH3-N
						COLIFORM	STREPCUS				TOTAL
						MF	MF				FIL.REAC
						CNT	CNT				MG/L
						/100ML	/100ML				AS N
SAMPLE DATE	YMMDD	YMMDD	HHMM	NUMBER	DEPTH	PROJECT	UNF.REAC	CONDUCT.	CHLORIDE	UMHO/CM	AS CL-
YMMDD	LMT	NUMBER	M	CODE	AS CL-	AT 25 C	MG/L	AT 25 C	MG/L	AT 25 C	MG/L
830201	0850	33001	0.30	0101	22.500	645.0	4<	64	7.960	6	1.0
830221	0850	33027	0.30	0101	22.500	570.0	60	372	26.000	6	5.0
830321	0850	33053	0.30	0101	19.500	570.0	4<	10<	12.100	6	4.0
830418	0850	33079	0.30	0101	17.500	550.0	252	150	23.600	6	5.0
830516	0850	33107	0.30	0101	16.500	555.0	4	4<	14.500	6	13.0
830620	0850	33135	0.30	0101	18.500	448.0	4	12	6.530	6	23.0
830719	0850	33163	0.30	0101	22.000	515.0	104	128	2.780	6	21.0
830816	0850	33191	0.30	0101	15.000	500.0	64	16	10.200	6	21.0
830920	0850	33219	0.30	0101	21.000	454.0			5.810	6	19.0
831017	0850	33347	0.30	0101	24.500	560.0			14.200	6	11.5
831122	0850	33375	0.30	0101	23.000	640.0			23.600	6	4.0
831220	0850	33401	0.30	0101	18.500	575.0	460	600>	16.100	6	0.0
MAXIMUM		0.30			24.500	645.0	460	372	26.000		23.0
ARITH MEAN		0.30			20.083	548.5	135	124	13.615		10.6
GEOM MEAN					19.880	545.2			11.430		
MINIMUM		0.30			15.000	448.0	4	12	2.780		0.0
STD DEV (GEOM *)					2.937	61.8			7.595		
# SAMP IN STATISTICS		12			12	12	7	6	12		12
% SAMP (EXCLUDED)							22	33			
*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP		
				K'DAHL N				PSEUDOMN			
				TOTAL				AERUG.			
				UNF.REAC				MF			
				MG/L				CNT			
				AS N				/100ML			
SAMPLE DATE	YMMDD	YMMDD	HHMM	NUMBER	DEPTH	PROJECT	UNF.REAC	CONDUCT.	CHLORIDE	UMHO/CM	AS CL-
YMMDD	LMT	NUMBER	M	CODE	AS CL-	AT 25 C	MG/L	AT 25 C	MG/L	AT 25 C	MG/L
830201	0850	33001	0.023	5.800	0.620	8.15	0.042	0.057	4<	3.1	
830221	0850	33027	0.029	5.320	0.900	8.12	0.050	0.072	4<	5.3	
830321	0850	33053	0.021	5.430	0.780	8.42	0.001	0.049	4<	22.3	
830418	0850	33079	0.034	5.600	0.740	8.18	0.030	0.090	8	27.2	
830516	0850	33107	0.042	5.700	0.730	8.40	0.001	0.050	4<	8.8	
830620	0850	33135	0.042	3.600	0.870	8.30	0.001	0.032	4<	4.1	
830719	0850	33163	0.148	4.800	1.240	7.98	0.017	0.162	4<	5.1	
830816	0850	33191	0.047	3.800	0.860	8.29	0.031	0.085	4	3.2	
830920	0850	33219	0.065	0.940	0.830	8.05	0.016	0.067		14.3	
831017	0850	33347	0.029	2.720	0.800	8.26	0.010	0.059		13.8	
831122	0850	33375	0.023	5.100	0.690	8.15	0.023	0.062		11.7	
831220	0850	33401	0.023	6.780	0.700	8.05	0.050	0.084	8	8.6	

(CONTD)

## 59

STATION ID: 04-0013-027-02

STORET CODE: 02  
003  
2870

[illegible]

## 1983 WATER QUALITY DATA REGION 1

60

B.O.W./ SITE: DINGMAN CREEK  
 SAMPLE POINT: 1ST.CONC.DOWNSTREAM OF LAMBERT  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE005

STATION ID: 04-0013-029-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 54 50.48 LONG: 081 18 49.08

U T M: 17 0474400.0 4751100.0 4

REGION: 01

DISTANCE: 196.013

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
				AS CACO3	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	TIME	DEPTH	PROJECT							
YYMMDD	LMT	NUMBER	M	SUB-PROJ							
				CODE							
830203	0945	33015	0.30	0101	133.0	4.66	50.500	435.0	0.0100	3400	5600
830222	0935	33040	0.30	0101	204.0	1.72	40.000	590.0	0.0100	700AID	600AID
830322	0935	33066	0.30	0101	256.0	1.29	69.000	740.0	0.0100<	700	260
830419	0935	33094	0.30	0101	228.0	1.50	46.500	645.0	0.0100	910	180
830518	0935	33122	0.30	0101	237.0	2.10	50.500	675.0	0.0100	300	40AID
830622	0935	33150	0.30	0101	246.0	2.68	53.500	690.0	0.0300	600>	236
830720	0935	33178	0.30	0101	229.0	4.08	48.500	640.0	0.0100<	1500>	1480
830817	0935	33206	0.30	0101	269.0	1.73	42.000	670.0	0.0100<	2500	810
830921	0935	33334	0.30	0101	127.0	6.14	29.500	391.0	0.027	9.0	
831018	0935	33362	0.30	0101	273.0	4.58	80.000	830.0	0.005	8.0	
831123	0935	33388	0.30	0101	262.0	16.50	55.500	740.0	0.005	10.0	
831221	0935	33414	0.30	0101	281.0	1.40	64.500	800.0	0.004	10.0	2200

MAXIMUM	0.30	281.0	16.50	80.000	830.0	0.0300	11.0	3400	5600
ARITH MEAN	0.30	228.7	4.03	52.500	653.8	0.012	9.1	1673	1267
GEOM MEAN		222.2	2.93	50.885	639.7		8.9		540
MINIMUM	0.30	127.0	1.29	29.500	391.0	0.004	6.8	300	40
STD DEV (GEOM *)		51.0	4.24	13.611	131.6		1.7		4*
* SAMP IN STATISTICS	12	12	12	12	12	9	11	7	9
% SAMP (EXCLUDED)						25		22	

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
					NH3-N			K'DAHL N			
					TOTAL			TOTAL	LEAD		P04
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P
SAMPLE	DATE	TIME	STREAM	STREAM	WATER						
YYMMDD	LMT	NUMBER	FLOW	COND.	TEMP						
			M3		DEG.C						
			/S								
830203	0945	33015	3.300	6 3	0.5	0.220	0.139	2.410	3.000	0.030<	7.22
830222	0935	33040	2.160	6	3.0	0.020	0.084	5.200	0.870	0.030<	7.91
830322	0935	33066	1.330	6	0.1	0.075	0.018	3.800	0.800	0.030<	7.99
830419	0935	33094	3.280	6	5.0	0.120	0.018	4.200	0.970	0.030<	8.00
830518	0935	33122	1.450	6	11.0	0.225	0.106	2.490	1.010	0.030<	7.97
830622	0935	33150	0.170	6	20.0	0.135	0.260	2.300	1.320	0.030<	7.82
830720	0935	33178	0.232	6	24.0	0.190	0.044	1.750	0.740	0.030<	8.07
830817	0935	33206	0.548	6	20.0	0.235	0.129	2.900	1.200	0.030<	7.88
830921	0935	33334	0.188	6	16.0	0.260	0.092	1.390	2.100	0.014	7.64
831018	0935	33362	1.270	6	10.0	0.705	0.106	1.490	1.020	0.010	7.87
831123	0935	33388	0.735	6	5.0	0.005	0.031	5.070	1.060	0.008	7.89
831221	0935	33414	0.840	4	0.5	0.205	0.025	5.030	0.900	0.003<	7.74

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

61

B.O.W./ SITE: DINGMAN CREEK  
 SAMPLE POINT: 1ST.CONC.DOWNSTREAM OF LAMBERT  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE005

STATION ID: 04-0013-029-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 54 50.48 LONG: 081 18 49.08 U T M: 17 0474400.0 4751100.0 4 REGION: 01 DISTANCE: 196.013

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC
SAMPLE DATE	HOUR LMT	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	MG/L AS P

MAXIMUM		3.300		24.0	0.705	0.260	5.200	3.000	0.014	8.07	0.156
ARITH MEAN		1.292		9.6	0.200	0.088	3.169	1.249	0.011	7.83	0.090
GEOM MEAN		0.851		4.2	0.121	0.064	2.866	1.142		7.83	0.080
MINIMUM		0.170		0.1	0.005	0.018	1.390	0.740	0.008	7.22	0.019
STD DEV (GEOM %)		1.105		8.6	0.180	0.070	1.431	0.657		0.23	0.040
# SAMP IN STATISTICS		12		12	12	12	12	12	3	12	12
% SAMP (EXCLUDED)									75		

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TCHF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL HF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE	HOUR LMT	PHOSPHOR UNF.TOT. MG/L AS P	HF CNT /100ML	RESIDUE PARTIC. MG/L	HF CNT /100ML	HF CNT /100ML		

830203	0945	33015	0.366	156	155.6	23000	180000	150.00	0.0500
830222	0935	33040	0.117	24	35.6	13000	31000	30.00	0.0100
830322	0935	33066	0.117	24	12.6	28000	39000	10.70	0.0100
830419	0935	33094	0.148	8	23.4	104000	27000	20.00	0.0100
830518	0935	33122	0.126	8	18.7	2200	20400	17.10	0.0100<
830622	0935	33150	0.254	4<	60.1	23000>	23000	53.00	0.0100<
830720	0935	33178	0.290	28	52.9	400000	490000	42.00	0.0100<
830817	0935	33206	0.220	16	84.0	37000	68000	71.00	0.0200
830921	0935	33334	0.860		486.7			395.00	0.058
831018	0935	33362	0.224		34.5			22.00	0.009
831123	0935	33388	0.148		29.8			23.00	0.024
831221	0935	33414	0.120	4<	13.0	16000	14000	13.50	0.007
MAXIMUM		0.860	156	486.7	40000	490000	395.00	0.058	
ARITH MEAN		0.249	38	83.9	21200	99156	70.61	0.022	
GEOM MEAN		0.204		44.0		47732	37.20		
MINIMUM		0.117	8	12.6	2200	14000	10.70	0.007	
STD DEV (GEOM %)		0.208		133.0		3*	109.22		
# SAMP IN STATISTICS		12	7	12	8	9	12	9	
% SAMP (EXCLUDED)			22		11		25		

## 1983 WATER QUALITY DATA REGION 1

62

B.O.W./ SITE: LOCK DRAIN  
 SAMPLE POINT: AT CONCESSION ROAD 22 HARWICH TWP  
 STATION TYPE: RIVER

STATION ID: 04-0013-031-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 04.38 LONG: 082 04 53.36 U T M: 17 0410925.0 4689125.0 4 REGION: 01 DISTANCE: 45.382

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCHF	FEUT
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	IRON
SAMPLE DATE	HOUR	SAMPLE	PROJECT	TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.
YYMMDD	LMT	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MG/L
			CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	CNT	AS FE
										/100ML	
830124	1350	35005	0101	162.0	0.94	33.000	735.0		26.0	190	
830228	1235	35021	0101	184.0	0.94	29.500	780.0	0.0100	13.0	30AID	1.6700
830328	1145	35038	0101	117.0	2.22	24.000	580.0	0.0300	11.0	1500>	24.5000
830425	1233	35055	0101	171.0	0.80	29.000	805.0		8.5	10AID	
830524	1320	35072	0101	88.6	2.80	24.500	585.0	0.0100	12.5	72	0.8200
830627	1229	35088	0101	88.4	0.86	55.000	900.0	0.0100<		1500>	2.5000
830725	1258	35106	0101	94	0.87	63.000	775.0	0.0100<	7.0	1500	0.3400
830926	1245	35139	0101	79.6	0.74	38.000	520.0	0.0060	15.0		
831024	1250	35156	0101	129.0	2.34	31.000	630.0		9.0		
831128	1400	35172	0101	70.6	5.32	39.000	352.0	0.065	11.0		
		MAXIMUM	0.30	184.0	5.32	63.000	900.0	0.065	26.0	1500	24.5000
		ARITH MEAN	0.30	118	1.78	36.600	666.2	0.024	12.6	360	5.9660
		GEOM MEAN		112	1.41	34.850	645.7		11.7		1.9544
		MINIMUM	0.30	70.6	0.74	24.000	352.0	0.0060	7.0	10	0.3400
		STD DEV (GEOM *)		41	1.46	12.914	162.9		5.6		10.3936
		* SAMP IN STATISTICS	10	10	10	10	10	5	9	5	5
		% SAMP (EXCLUDED)						28		28	

*=INTERIM TEST-NAME:		FSMF	FMSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
		FECAL			NH3-N	N02-N	N03-N	K'DAHL N	LEAD		P04
SAMPLE DATE	HOUR	STREPCUS		WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
YYMMDD	LMT	MF	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
		CNT	COND.	DEG.C	AS N	AS N	AS N	AS N	AS PB	PH	AS P
		/100ML									
830124	1350	35005	4	1.0	0.270	0.029	4.220	0.940		7.94	0.128
830228	1235	35021	6	8.0	0.490	0.017	5.000	1.180	0.030<	8.17	0.065
830328	1145	35038	6	4.5	0.090	0.115	8.000	2.850	0.030<	7.87	0.120
830425	1233	35055	10<	9.5	0.225	0.056	10.700	0.780		8.47	0.052
830524	1320	35072	100	26.0	0.030	0.055	4.200	1.200	0.030<	8.71	0.008
830627	1229	35088	780	29.0	0.075	0.011	0.010	0.940	0.030<	8.01	0.031
830725	1258	35106	370	26.0	0.035	0.003	0.010<	0.820	0.030<	8.13	0.010
830926	1245	35139	6	19.0	0.250	0.017	0.560	0.490	0.008<	8.58	0.004
831024	1250	35156	6	12.0	0.040	0.087	1.400	1.340		8.14	0.058
831128	1400	35172	6	7.0	0.340	0.195	6.500	6.100	0.003<	7.68	0.605

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

63

B.O.W./ SITE: LOCK DRAIN  
 SAMPLE POINT: AT CONCESSION ROAD 22 HARMICH TWP  
 STATION TYPE: RIVER

STATION ID: 04-0013-031-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 21 04.38 LONG: 082 04 53.36 U T M: 17 0410925.0 4689125.0 4 REGION: 01 DISTANCE: 45.382

SAMPLE		TEST-NAME:		FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
				FECAL			NH3-N			K'DAHL N			
				STREPCUS			TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04
DATE	HR	SAMPLE	MF		WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	
YYMMDD	LMT	NUMBER	CNT	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	AS PB	MG/L	AS P
		/100ML		COND.	DEG.C	AS N	AS N	AS N	AS N	AS N		PH	AS P
		MAXIMUM	3300		29.0	0.490	0.195	10.700	6.100			8.71	0.605
		ARITH MEAN	943		14.2	0.184	0.058	4.510	1.664			8.17	0.108
		GEOM MEAN			10.1	0.122	0.033		1.248			8.16	0.042
		MINIMUM	100		1.0	0.030	0.003	0.010	0.490			7.68	0.004
		STD DEV (GEOM *)			10.0	0.156	0.060		1.685			0.33	0.180
		# SAMP IN STATISTICS	6		10	10	10	9	10			10	10
		% SAMP (EXCLUDED)	14					10					

SAMPLE		TEST-NAME:		PPUT	PSAMF	RSP	TCMF	TCMFBK	TURB	ZNUT
				PHOSPHOR	PSEUDOMN		COLIFORM	COLIFORM		ZINC
				UNF.TOT.	AERUG.	RESIDUE	TOTAL	TOTAL MF		UNF.TOT.
DATE	HR	SAMPLE	MG/L	MF	HF	PARTIC.	HF	BCKGRD		MG/L
YYMMDD	LMT	NUMBER	AS P	CNT	/100ML	MG/L	CNT	CNT	TURB'ITY	AS ZN
							/100ML	/100ML	FTU	
830124	1350	35005	0.150	36	11.9	28000	123000	15.80		
830228	1235	35021	0.107	4<	33.6	320	870	41.00	0.0200	
830328	1145	35038	0.815	30AID	403.1	18100>	75000	385.00	0.0900	
830425	1233	35055	0.064	4<	6.2	370AID	3400	9.40		
830524	1320	35072	0.068	4<	20.6	1900C	36000	23.00	0.0100	
830627	1229	35088	0.050	12	18.9	8000AID	180000	23.00	0.0100	
830725	1258	35106	0.024	4	13.6	2800C	27700	13.70	0.0100<	
830926	1245	35139	0.018		9.5			4.20	0.003 <	
831024	1250	35156	0.141		33.5			68.00		
831128	1400	35172	2.000		1417.6			1780.00	0.240	
		MAXIMUM	2.000	36	1417.6	28000	180000	1780.00	0.240	
		ARITH MEAN	0.344	20	196.8	6898	63710	236.31	0.074	
		GEOM MEAN	0.113		34.5		24226	39.23		
		MINIMUM	0.018	4	6.2	320	870	4.20	0.0100	
		STD DEV (GEOM *)	0.628		445.7		7*	554.39		
		# SAMP IN STATISTICS	10	4	10	6	7	10	5	
		% SAMP (EXCLUDED)		42		14		28		



## 1983 WATER QUALITY DATA REGION 1

64

B.O.W./ SITE: BIG CREEK  
 SAMPLE POINT: CONC.10 W.TILBURY TWP.W.OF STRANGFIELD  
 STATION TYPE: RIVER

STATION ID: 04-0013-033-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 11 33.66 LONG: 082 31 01.22 U T M: 17 0374740.0 4672070.0 4 REGION: 01 DISTANCE: 16.737

*=-INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	DO	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISOLVED OXYGEN MG/L AS O	FCMF FECAL COLIFORM CNT /100ML	FSMF FECAL STREPCUS CNT /100ML	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C
830124	1215	35003	0.30	0101		67.500	845.0	13.0	5200	6200	4	1.0
830228	1100	35019	0.30	0101		41.000	760.0		140	40AID	6	2.0
830328	1045	35036	0.30	0101		28.000	430.0		1080	1220	6	4.0
830425	1122	35053	0.30	0101		39.000	810.0		410	30AID	6	7.0
830524	1155	35070	0.30	0101		29.000	590.0		690	1500>	6	14.0
830627	1110	35087	0.30	0101		43.000	780.0		1900	580	5	26.0
830725	1121	35104	0.30	0101		42.000	650.0		230	100	5	25.0
830822	1110	35120	0.30	0101		50.500	670.0		90AID	510	9	24.0
830926	1117	35137	0.30	0101	111.0	77.500	780.0				6	16.0
831024	1117	35154	0.30	0101		68.500	705.0				6	12.0
831128	1148	35171	0.30	0101		56.000	255.0				6	8.0
MAXIMUM		0.30			111.0	77.500	845.0	13.0	5200	6200		26.0
ARITH MEAN		0.30			111.0	49.273	661.4	13.0	1217	1240		12.6
GEOM MEAN						46.831	630.7		553			8.6
MINIMUM		0.30			111.0	28.000	255.0	13.0	90	30		1.0
STD DEV (GEOM *)						16.356	178.8		4*			9.2
# SAMP IN STATISTICS		11			1	11	11	1	8	7		11
% SAMP (EXCLUDED)										12		

*=-INTERIM TEST-NAME:		NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS P	MG/L AS P	MG/L	FTU
830124	1215	35003	0.655	0.058	5.100	1.450	7.87	0.171	0.210	19.10
830228	1100	35019	0.035	0.021	6.400	1.020	8.11	0.038	0.086	20.00
830328	1045	35036	0.320	0.169	9.000		7.83	0.320	0.915	720.00
830425	1122	35053	0.590	0.158	6.500	2.300	8.09	0.009	0.110	6.50
830524	1155	35070	0.295	0.145	7.400	2.050	7.88	0.196	0.380	160.00
830627	1110	35087	0.030	0.019	0.003	1.000	7.88	0.012	0.060	29.00
830725	1121	35104	0.025	0.038	1.890	1.200	8.15	0.076	0.130	63.00
830822	1110	35120	0.130	0.013	0.020	1.200	7.91	0.028	0.160	109.00
830926	1117	35137	0.350	0.064	2.390	1.440	7.62	0.027	0.144	142.00
831024	1117	35154	0.110	0.120	10.600	1.980	7.77	0.148	0.282	76.00
831128	1148	35171	0.895	0.365	4.240	7.300	7.68	1.500	3.350	2360.00

(CONT'D)

## 65

STORET CODE: 02  
003  
2870

DISTANCE: 16.737

[illegible]

## 1983 WATER QUALITY DATA REGION 1

66

B.O.W./ SITE: DINGMAN CREEK  
 SAMPLE POINT: AT WELLINGTON ROAD  
 STATION TYPE: RIVER

STATION ID: 04-0013-037-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 54 43.24 LONG: 081 12 27.55 U T M: 17 0483050.0 4750850.0 4 REGION: 01 DISTANCE: 208.726

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	CNT /100ML	CNT /100ML	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N
830203		33014	0101	42.000	435.0	3600	19400	6 3	1.0	0.345	0.109
830222	1000	33041	0101	36.500	570.0	200	550	6	2.0	0.030	0.044
830322	1000	33067	0101	69.000	725.0	290	80AID	6	0.1	0.025	0.014
830419	1000	33095	0101	41.500	615.0	630	90AID	6	5.0	0.050	0.018
830518	1000	33123	0101	43.000	620.0	360	76	6	10.5	0.015	0.027
830622	1000	33151	0101	37.500	630.0	350	196	6	22.0	0.140	0.070
830720	1000	33179	0101	41.000	545.0	5800	1490	6	25.0	0.080	0.044
830817	1000	33207	0101	41.000	660.0	900AID	1400	6	20.0	0.045	0.041
830921	1000	33335	0101	31.000	535.0			6	16.0	0.050	0.012
831018	1000	33363	0101	65.500	770.0			6	10.0	0.025	0.018
831123	1000	33389	0101	52.000	725.0			6	5.0	0.025	0.029
831221	1000	33415	0101	53.500	725.0	100<	210	4	0.5	0.090	0.024
MAXIMUM		0.30		69.000	770.0	3600	1490		25.0	0.345	0.109
ARITH MEAN		0.30		46.125	629.6	904	511		9.8	0.077	0.037
GEOM MEAN				44.904	622.2				4.4	0.050	0.030
MINIMUM		0.30		31.000	435.0	200	76		0.1	0.015	0.012
STD DEV (GEOM *)				11.615	98.1				9.0	0.092	0.028
# SAMP IN STATISTICS		12		12	12	7	8		12	12	12
% SAMP (EXCLUDED)						22	11				
*INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAHF PSEUDOMN AERUG.	P1PCBT	RSF	RSP	TURB
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	NO3-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	PCB TOTAL NG/L	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830203		33014	3.590	2.000	7.54	0.151	0.400	108		139.0	92.00
830222	1000	33041	6.700	0.870	7.86	0.035	0.081	4<	20<W	23.0	19.00
830322	1000	33067	4.400	0.660	8.10	0.016	0.053	4<	20<W	16.7	14.50
830419	1000	33095	5.300	0.850	8.08	0.025	0.083	8	20<W	16.4	18.90
830518	1000	33123	2.120	0.830	8.08	0.009	0.051	4<	20<W	10.6	9.60
830622	1000	33151	0.680	1.000	7.99	0.038	0.144	4<	20<W	56.7	48.00
830720	1000	33179	0.660	0.600	7.87	0.057	0.312	28	20<W	39.2	38.00
830817	1000	33207	2.800	0.840	7.80	0.046	0.113	20	20<W	28.7	25.00
830921	1000	33335	3.600	1.520	7.74	0.082	0.282	20<W		84.4	76.00
831018	1000	33363	1.610	0.780	8.06	0.035	0.062			10.0	7.80
831123	1000	33389	6.220	0.910	7.76	0.040	0.087			13.5	18.10
831221	1000	33415	5.030	0.990	7.71	0.033	0.067	4<		10.7	11.40

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

67

B.O.W./ SITE: DINGMAN CREEK  
 SAMPLE POINT: AT WELLINGTON ROAD  
 STATION TYPE: RIVER

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STATION ID: 04-0013-037-02

STORET CODE: 02  
 003  
 2870

LAT: 42 54 43.24 LONG: 081 12 27.55 U T M: 17 0483050.0 4750850.0 4 REGION: 01 DISTANCE: 208.726

*INTERIM TEST-NAME:		NNQ3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	P1PCBT	RSF	RSP	TURB
		NQ3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN				
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	PCB	RESIDUE	RESIDUE	TURB'ITY
DATE	HOURL	MG/L	MG/L		MG/L	MG/L	MF	TOTAL	FILTERED	PARTIC.	FTU
YYMMDD	LMT	AS N	AS N	PH	AS P	AS P	CNT	NG/L	NG/L	MG/L	
MAXIMUM		6.700	2.000	8.10	0.151	0.400	108	20	10.6	139.0	92.00
ARITH MEAN		3.559	0.987	7.88	0.047	0.145	41	20<A	10.6	37.4	31.52
GEOM MEAN		2.836	0.933	7.88	0.037	0.112		20<A		25.4	23.30
MINIMUM		0.660	0.600	7.54	0.009	0.051	8	20	10.6	10.0	7.80
STD DEV (GEOM *)		2.045	0.393	0.18	0.038	0.118		0<A		39.1	27.35
# SAMP IN STATISTICS		12	12	12	12	12	4	8	1	12	12
% SAMP (EXCLUDED)							55				

## 1983 WATER QUALITY DATA REGION 1

68

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 48 WOODSTOCK  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD012

STATION ID: 04-0013-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 08 41.10 LONG: 080 46 05.51 U T M: 17 0518850.0 4776700.0 4 REGION: 01 DISTANCE: 261.028

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR
						FECAL	FECAL				NH3-N
						COLIFORM	STREPCUS	STREAM			TOTAL
						MF	MF	FLOW			FIL.REAC
						CNT	CNT	M3	STREAM	WATER	MG/L
						/100ML	/100ML	/S	COND.	TEMP	AS N
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C				DEG.C	
830203	1245	33022	0.30	0101	28.500	407.0	3100	16600>	16.600	6 3	0.455
830222	1245	33048	0.30	0101	22.000	560.0	230	300	3.440	6	0.535
830322	1245	33074	0.30	0101	27.500	660.0	10<	10<	1.450	6	0.080
830419	1245	33102	0.30	0101	31.000	610.0	12	4<	5.620	6	0.090
830518	1245	33130	0.30	0101	20.500	510.0	4<	4	2.280	6	0.040
830622	1245	33158	0.30	0101	26.000	595.0	48	12	0.887	6	0.385
830720	1245	33186	0.30	0101	26.500	550.0	148	108	0.804	6	0.185
830817	1245	33214	0.30	0101	19.500	494.0	246	104	7.460	6	0.145
830921	1245	33342	0.30	0101	23.000	478.0			2.190	6	0.400
831018	1245	33370	0.30	0101	28.000	595.0			1.800	6	0.275
831123	1245	33396	0.30	0101	38.500	745.0			4.590	6	0.350
831221	1245	33422	0.30	0101	30.500	745.0	32	8	2.950	6	0.165
MAXIMUM		0.30			38.500	745.0	3100	300	16.600		0.535
ARITH MEAN		0.30			26.792	579.1	545	89	4.173		0.259
GEOM MEAN					26.336	570.7			2.861		0.202
MINIMUM		0.30			19.500	407.0	12	4	0.804		0.040
STD DEV (GEOM *)					5.259	102.7			4.393		0.164
# SAMP IN STATISTICS		12			12	12	7	6	12	12	12
% SAMP (EXCLUDED)							22	33			

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	
				K'DAHL N				PSEUDOMN		
				TOTAL				AERUG.		
				UNF. REAC				MF		
				MG/L				CNT	RESIDUE	
				AS N	PH	AS P	AS P	/100ML	PARTIC.	
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	FIL. REAC AS N	FIL. REAC AS N	MG/L AS N				MG/L	
830203	1245	33022	0.099	2.800	1.150	7.38	0.120	0.215	24	28.8
830222	1245	33048	0.189	3.160	1.660	7.93	0.192	0.286	4<	11.1
830322	1245	33074	0.024	4.800	0.800	8.33	0.015	0.070	4	20.3
830419	1245	33102	0.031	4.600	0.990	8.19	0.036	0.109	4<	18.9
830518	1245	33130	0.060	3.700	1.340	8.51	0.002	0.100	4<	28.3
830622	1245	33158	0.075	2.500	1.350	8.07	0.001	0.070	4<	8.9
830720	1245	33186	0.092	1.330	0.510	8.17	0.034	0.400	4<	15.3
830817	1245	33214	0.096	2.300	1.370	8.03	0.001<	0.084	4<	8.4
830921	1245	33342	0.071	0.660	1.020	7.95	0.020	0.110		20.2
831018	1245	33370	0.050	1.320	1.080	8.29	0.003	0.116		21.5
831123	1245	33396	0.040	4.610	1.100	8.10	0.040	0.166		54.5
831221	1245	33422	0.025	6.580	0.830	7.97	0.035	0.073	4<	14.2

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

69

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 48 WOODSTOCK  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD012

STATION ID: 04-0013-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 08 41.10 LONG: 080 46 05.51

U T M: 17 0518850.0 4776700.0 4

REGION: 01

DISTANCE: 261.028

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR K'DAHL N	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP
		NO2-N FIL.REAC	NO3-N FIL.REAC	TOTAL UNF.REAC		PO4 FIL.REAC	PHOSPHOR UNF.TOT.	MF CNT	RESIDUE PARTIC.
DATE	HR	MG/L	MG/L	MG/L		MG/L	MG/L		MG/L
YYMMDD	LHT	AS N	AS N	AS N	PH	AS P	AS P	/100ML	
MAXIMUM		0.189	6.580	1.660	8.51	0.192	0.400	24	54.5
ARITH MEAN		0.071	3.197	1.100	8.08	0.045	0.150	14	20.9
GEOM MEAN		0.059	2.694	1.056	8.07		0.127		18.2
MINIMUM		0.024	0.660	0.510	7.38	0.001	0.070	4	8.4
STD DEV (GEOM *)		0.046	1.735	0.307	0.28		0.102		12.5
# SAMP IN STATISTICS		12	12	12	12	11	12	2	12
% SAMP (EXCLUDED)						8		77	

## 70

STATION ID: 04-0013-039-02

STORET CODE: 02  
003  
2870

DISTANCE: 245.257

*INTERIM		TEST-NAME:	NNHTFR NH3-N TOTAL	NNO2FR NO2-N TOTAL	NNO3FR NO3-N TOTAL	NNTKUR K'DAHL N TOTAL	PH	PP04FR P04 PHOSPHOR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N		FIL.REAC MG/L AS P	UNF.TOT. AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830203	1335	33024	0.605	0.084	2.970	1.600	7.56	0.172	0.300	16	55.6	39.00
830222	1335	33050	0.320	0.151	4.300	1.330	8.25	0.141	0.195	4<	6.7	4.20
830322	1335	33076	0.030	0.096	4.400	0.680	8.46	0.025	0.051	8	6.7	4.10
830419	1335	33104	0.045	0.049	4.900	0.870	8.38	0.027	0.083	4<	12.8	10.40
830518	1335	33132	0.010	0.058	4.100	1.090	8.48	0.001	0.102	4	11.5	6.70
830622	1335	33160	0.115	0.132	3.400	1.160	8.39	0.041	0.099	4<	9.3	5.80
830720	1335	33188	0.045	0.121	2.700	0.520	8.35	0.047	0.156	4<	18.9	10.90
830817	1335	33216	0.550	0.088	2.800	1.110	8.00	0.019	0.130	4<	21.7	11.60
830921	1335	33344	0.135	0.079	2.900	1.070	7.99	0.085	0.184		48.2	27.00
831018	1335	33372	0.045	0.091	3.290	0.740	8.28	0.040	0.088		12.9	5.70
831123	1335	33398	0.170	0.052	4.650	0.830	8.11	0.038	0.103		24.0	11.70
831221	1335	33424	0.135	0.025	6.080	0.660	8.06	0.045	0.059	12	9.6	4.40

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

71

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT PEMBERTON STREET INGERSOLL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD016

STATION ID: 04-0013-039-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 02 43.48 LONG: 080 52 38.01 U T M: 17 0510000.0 4765650.0 4 REGION: 01 DISTANCE: 245.257

*INTERIM TEST-NAME:		NNHTFR	NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
		NH3-N			K'DAHL N				PSEUDOMN		
		TOTAL	N02-N	N03-N	TOTAL		P04	PHOSPHOR	AERUG.		
SAMPLE		FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE	TURB'ITY
DATE HOUR	SAMPLE	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	CNT	PARTIC.	
YYMMDD LMT	NUMBER	AS N	AS N	AS N	AS N	PH	AS P	AS P	/100ML	MG/L	FTU
	MAXIMUM	0.605	0.151	6.080	1.600	8.48	0.172	0.300	16	55.6	39.00
	ARITH MEAN	0.184	0.085	3.874	0.972	8.19	0.057	0.129	10	19.8	11.79
	GEOM MEAN	0.100	0.077	3.754	0.926	8.19	0.035	0.114		15.6	8.97
	MINIMUM	0.010	0.025	2.700	0.520	7.56	0.001	0.051	4	6.7	4.10
	STD DEV (GEOM *)	0.203	0.037	1.040	0.312	0.26	0.051	0.070		16.0	10.64
	# SAMP IN STATISTICS	12	12	12	12	12	12	12	4	12	12
	% SAMP (EXCLUDED)								55		



## 1983 WATER QUALITY DATA REGION 1

72

B.O.W./ SITE: MIDDLE THAMES RIVER  
 SAMPLE POINT: AT 2ND.CONC.RD.SOUTH OF THAMESFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD004

STATION ID: 04-0013-041-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 01 54.28 LONG: 080 59 60.00

U T M: 17 0500000.0 4764125.0 4

REGION: 01

DISTANCE: 239.786

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	FCMF FECAL COLIFORM	FEUT	FSMF FECAL STREPCUS	FWFLOW
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	STREPCUS MF CNT /100ML	STREAM FLOW M3 /S
830203	1415	33026	0.30	0101	115.0	12.000	320.0	0.0100	4900	3.0500	22.600
830222	1415	33052	0.30	0101	232.0	19.500	570.0	0.0100	40AID	0.2900	4.380
830322	1415	33078	0.30	0101	261.0	25.000	645.0	0.0100<	20AID	0.1200	3.680
830419	1415	33106	0.30	0101	249.0	20.500	605.0	0.0100<	4<	0.1600	7.140
830518	1415	33134	0.30	0101	216.0	20.500	565.0	0.0100	4<	0.0900	2.730
830622	1415	33162	0.30	0101	210.0	23.500	560.0	0.0100	40	0.1000	1.090
830720	1415	33190	0.30	0101	185.0	26.000	520.0	0.0100<	200	0.1500	0.614
830817	1415	33218	0.30	0101	252.0	22.500	620.0	0.0100<	272	0.2000	1.990
830921	1415	33346	0.30	0101	224.0	29.000	620.0	0.001 <		0.190	2.380
831018	1415	33374	0.30	0101	259.0	25.500	645.0	0.015		0.100	1.210
831123	1415	33400	0.30	0101	289.0	27.000	705.0	0.009		0.096	3.740
831221	1415	33426	0.30	0101	301.0	27.500	730.0	0.009	432	0.400	3.280
MAXIMUM			0.30		301.0	29.000	730.0	0.015	4900	3.0500	22.600
ARITH MEAN			0.30		232.7	23.208	592.1	0.010	843	0.412	4.569
GEOM MEAN					226.8	22.683	581.5			0.197	2.886
MINIMUM			0.30		115.0	12.000	320.0	0.009	20	0.0900	0.614
STD DEV (GEOM *)					49.5	4.644	104.7			0.836	5.945
# SAMP IN STATISTICS			12		12	12	12	7	7	7	12
% SAMP (EXCLUDED)								41	22	22	

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P
830203	1415	33026	6	4.0	0.835	0.133	3.470	2.000	0.030<	7.68	0.230
830222	1415	33052	6	4.0	0.090	0.067	5.500	0.920	0.030<	8.21	0.063
830322	1415	33078	6	1.0	0.015	0.015	7.200	0.660	0.030<	8.26	0.013
830419	1415	33106	6	7.0	0.035	0.028	6.900	0.700	0.030<	8.36	0.017
830518	1415	33134	6	14.5	0.015	0.025	4.800	0.540	0.030<	8.41	0.001<
830622	1415	33162	5	22.0	0.030	0.087	3.300	0.670	0.030<	8.49	0.012
830720	1415	33190	6	29.0	0.005	0.076	1.900	0.510	0.030<	8.44	0.011
830817	1415	33218	6	23.0	0.020	0.024	4.400	0.610	0.030<	8.40	0.011
830921	1415	33346	6	18.0	0.005	0.149	3.000	0.460	0.003<	8.26	0.029
831018	1415	33374	6	11.0	0.025	0.027	4.420	0.530	0.003	8.27	0.003
831123	1415	33400	6	5.0	0.050	0.030	7.170	0.580	0.003<	8.24	0.031
831221	1415	33426	4	1.0	0.120	0.030	8.070	0.550	0.003<	8.05	0.027

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

73

B.O.W./ SITE: MIDDLE THAMES RIVER  
 SAMPLE POINT: AT 2ND.CONC.RD.SOUTH OF THAMESFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD004

STATION ID: 04-0013-041-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 01 54.28 LONG: 080 59 60.00

U T M: 17 0500000.0 4764125.0 4

REGION: 01

DISTANCE: 239.786

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL UNF.REAC	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PP04FR PO4 FIL.REAC MG/L AS P
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	PHENOL MG/L AS P

MAXIMUM				29.0	0.835	0.149	8.070	2.000	0.003	8.49	6.500	0.230
ARITH MEAN				11.6	0.104	0.058	5.011	0.727	0.003	8.26	3.167	0.041
GEOM MEAN				7.3	0.032	0.044	4.627	0.665		8.25		
MINIMUM				1.0	0.005	0.015	1.900	0.460	0.003	7.68	1.500	0.003
STD DEV (GEOM *)				9.5	0.233	0.045	1.964	0.418		0.22		
# SAMP IN STATISTICS				12	12	12	12	12	1	12	3	11
% SAMP (EXCLUDED)									91		75	8

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN

830203	1415	33026	0.385	24	67.3	50.00	0.0400
830222	1415	33052	0.079	4<	5.9	4.50	0.0100<
830322	1415	33078	0.033	4<	7.6	3.00	0.0100<
830419	1415	33106	0.034	4<	4.2	3.30	0.0100<
830518	1415	33134	0.019	4<	2.0	2.40	0.0100<
830622	1415	33162	0.048	4<	6.6	4.70	0.0100<
830720	1415	33190	0.050	4<	6.6	4.30	0.0100<
830817	1415	33218	0.042	4<	6.6	4.20	0.0100<
830921	1415	33346	0.044		4.5	3.70	0.002
831018	1415	33374	0.011		3.7	1.12	0.001 <
831123	1415	33400	0.043		6.8	3.80	0.003
831221	1415	33426	0.029	4<	29.4	12.00	0.004

MAXIMUM		0.385	24	67.3	50.00	0.0400
ARITH MEAN		0.068	24	12.6	8.08	0.012
GEOM MEAN		0.043		7.3	4.58	
MINIMUM		0.011	24	2.0	1.12	0.002
STD DEV (GEOM *)		0.101		18.6	13.46	
# SAMP IN STATISTICS		12	1	12	12	4
% SAMP (EXCLUDED)			88			66

## 1983 WATER QUALITY DATA REGION 1

74

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT FIRST BRIDGE DOWNSTREAM OF INGERSOLL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD016

STATION ID: 04-0013-042-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 01 06.44 LONG: 080 57 52.98

U T M: 17 0502875.0 4762650.0 4

REGION: 01

DISTANCE: 239.786

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
				AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	TIME	DEPTH	PROJECT							
YYMMDD	LMT	NUMBER	M	SUB-PROJ							
				CODE							
830203	1350	33025	0.30	0101	141.0	6.74	31.000	455.0	0.0100	13.0	5300
830222	1350	33051	0.30	0101	222.0	3.35	39.000	650.0	0.0100	12.0	240
830322	1350	33077	0.30	0101	243.0	1.42	50.000	715.0	0.0100<	8.0	20AID
830419	1350	33105	0.30	0101	228.0	1.56	32.500	625.0	0.0100<	12.0	10AID
830518	1350	33133	0.30	0101	220.0	4.50	44.500	675.0	0.0100	14.0	130
830622	1350	33161	0.30	0101	238.0	1.57	62.000	785.0	0.0100<	9.0	28
830720	1350	33189	0.30	0101	209.0	2.60	60.000	770.0	0.0100<	7.0	164
830817	1350	33217	0.30	0101	216.0	2.00	30.500	595.0	0.0100<	8.0	210
830921	1350	33345	0.30	0101	201.0	2.59	42.500	645.0	0.008	9.0	104
831018		33373	0.30	0101	245.0	1.82	47.500	730.0	0.004	11.0	
831123	1350	33399	0.30	0101	269.0	2.63	44.500	765.0	0.004	8.0	
831221	1350	33425	0.30	0101	284.0	0.62	48.000	800.0		13.0	340
		MAXIMUM	0.30		284.0	6.74	62.000	800.0	0.0100	14.0	5300
		ARITH MEAN	0.30		226.3	2.62	44.333	684.2	0.008	10.3	210
		GEOM MEAN			223.4	2.22	43.244	676.9		10.1	86
		MINIMUM	0.30		141.0	0.62	30.500	455.0	0.004	7.0	20
		STD DEV (GEOM *)			36.1	1.64	10.243	98.8		2.4	10
		# SAMP IN STATISTICS	12		12	12	12	12	6	12	8
		% SAMP (EXCLUDED)						45		11	8
*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
					NH3-N			K'DAHL N			
					TOTAL	N02-N	N03-N	TOTAL	LEAD		P04
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
					AS N	AS N	AS N	AS N	AS PB		AS P
SAMPLE	DATE	TIME	STREAM	WATER							
YYMMDD	LMT	NUMBER	FLOW	TEMP							
			M3	DEG.C							
			/S								
			COND.								
830203	1350	33025	27.400	3 6	0.5	0.630	0.135	2.870	1.650	0.030<	7.64
830222	1350	33051	6.930	6	4.0	0.320	0.193	4.510	1.390	0.020<	8.17
830322	1350	33077	4.760	6	1.0	0.035	0.041	4.500	0.620	0.030<	0.116
830419	1350	33105	11.600	6	8.0	0.030	0.062	4.900	0.820	0.030<	0.018
830518	1350	33133	4.420	6	15.0	0.005	0.047	4.400	1.160	0.030<	0.025
830622	1350	33161	2.220	6	25.0	0.125	0.123	3.500	0.870	0.030<	8.33
830720	1350	33189	2.190	6	28.0	0.020	0.105	3.100	0.420	0.030<	0.001<
830817	1350	33217	8.860	6	21.0	0.060	0.083	3.000	1.060	0.030<	8.14
830921	1350	33345	6.520	6	17.0	0.010	0.030	2.970	0.950	0.003<	8.16
831018		33373	3.520	6	12.0	0.025	0.055	3.590	0.900	0.004	0.055
831123	1350	33399	7.630	6	5.0	0.140	0.043	4.760	0.790	0.003	8.04
831221	1350	33425	5.480	6	0.0	0.165	0.025	6.580	0.600		0.029

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

75

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT FIRST BRIDGE DOWNSTREAM OF INGERSOLL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD016

STATION ID: 04-0013-042-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 01 06.44 LONG: 080 57 52.98

U T M: 17 0502875.0 4762650.0 4

REGION: 01

DISTANCE: 239.786

**INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P

MAXIMUM		27.400		28.0	0.630	0.193	6.580	1.650	0.004	8.33	0.240
ARITH MEAN		7.627		11.4	0.130	0.078	4.057	0.936	0.003	8.11	0.064
GEOM MEAN		5.936			0.056	0.065	3.932	0.879		8.10	
MINIMUM		2.190		0.0	0.005	0.025	2.870	0.420	0.003	7.64	0.018
STD DEV (GEOM %)		6.801			0.182	0.051	1.097	0.344		0.19	
# SAMP IN STATISTICS		12		12	12	12	12	12	2	12	11
% SAMP (EXCLUDED)									81		8

**INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF B'GRD	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	COLIFORM TOTAL MF /100ML	COLIFORM TOTAL MF B'GRD /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN

830203	1350	33025	0.375	28	60.5	15000	220000	48.00
830222	1350	33051	0.177	4	6.6	1800	6600	3.70
830322	1350	33077	0.046	4	15.8	570	880	4.70
830419	1350	33105	0.082	4<	12.7	1200	2300	7.50
830518	1350	33133	0.118	4	11.9	5200C	25000	11.60
830622	1350	33161	0.107	4<	11.8	54000C	40000	7.00
830720	1350	33189	0.130	44	15.9	390000C	620000	8.60
830817	1350	33217	0.143	4<	18.9	62000	114000	13.50
830921	1350	33345	0.178		62.4			32.00
831018		33373	0.098		13.0			5.50
831123	1350	33399	0.104		24.0			12.60
831221	1350	33425	0.061	4	21.8	2200	3300	10.60
MAXIMUM		0.375	44	62.4	390000	620000	48.00	0.0300
ARITH MEAN		0.135	15	22.9	59746	114675	13.77	0.011
GEOM MEAN		0.117		18.3		20659	10.28	
MINIMUM		0.046	4	6.6	570	880	3.70	0.003
STD DEV (GEOM %)		0.086		18.6		9*	13.09	
# SAMP IN STATISTICS		12	6	12	8	9	12	7
% SAMP (EXCLUDED)			33		11			36

## 1983 WATER QUALITY DATA REGION 1

76

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT HIGHWAY 7  
 STATION TYPE: RIVER

STATION ID: 04-0013-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 12 29.81 LONG: 081 12 28.50 U T M: 17 0483110.0 4783750.0 4 REGION: 01 DISTANCE: 243.326

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COD	COND25	CUUT	DO	FCMF
					BOD						FECAL
					5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	COPPER	DISOLVED	COLIFORM
				ALK	TOT.DEM.	UNF.REAC	DEMAND	25C	UNF.TOT.	OXYGEN	MF
SAMPLE		SAMPLE	PROJECT	TOTAL	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT
DATE	HR	DEPTH	SUB-PROJ	AS CACO3	AS O	AS CL-	AS O	AT 25 C	AS CU	AS O	/100ML
YYMMDD	LMT	NUMBER	CODE								
830201	0930	33003	0101	258.0	0.92	29.000	59	660.0	0.010	13.0	230
830221	0930	33029	0101	206.0	0.64	15.500	93	505.0		10.0	560
830321	0930	33055	0101	248.0	1.45	28.000	10	620.0	0.0100	9.0	330
830418	0930	33081	0101	244.0	0.55	18.500	10	580.0	0.0100<	11.0	10AID
830516	0935	33109	0101	230.0	1.11	20.500	12	570.0	0.0100<	10.0	144
830620	0935	33137	0101	195.0	0.64	19.500	25	494.0	0.0100<	7.0	68
830719	0935	33165	0101	177.0	1.65	32.500	15	545.0	0.0100<	7.0	96
830816	0935	33193	0101	232.0	1.08	16.500	14	525.0	0.0100<	8.0	312
830920	0935	33221	0101	178.0	1.95	24.000		483.0	0.004	8.0	
831017	0935	33349	0101	268.0	1.10	20.000		620.0	0.012	11.0	
831122	0935	33377	0101	285.0	3.26	19.500		650.0	0.004	10.0	
831220	0915	33403	0101	272.0	1.00	30.000		670.0	0.003	11.0	220
MAXIMUM		0.30		285.0	3.26	32.500	93	670.0	0.012	13.0	560
ARITH MEAN		0.30		232.7	1.28	22.792	30	576.8	0.007	9.6	219
GEOM MEAN				230.0	1.13	22.159	21	573.3		9.4	144
MINIMUM		0.30		177.0	0.55	15.500	10	483.0	0.003	7.0	10
STD DEV (GEOM *)				36.6	0.75	5.715	30	66.9		1.8	3*
# SAMP IN STATISTICS		12		12	12	12	8	12	6	12	9
% SAMP (EXCLUDED)									45		

*=INTERIM TEST-NAME:		FSMF	FWSTRC	FWTEMP	NNHTR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
		FECAL			NH3-N			K'DAHL N			
		STREPCUS			TOTAL	N02-N	N03-N	TOTAL	LEAD		P04
		MF		WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
		CNT	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	PH	MG/L
SAMPLE		/100ML	COND.	DEG.C	AS N	AS N	AS N	AS N	AS PB		AS P
DATE	HR										
YYMMDD	LMT	NUMBER									
830201	0930	33003	710	6	0.0	0.220	0.038	4.600	0.030<	8.20	0.041
830221	0930	33029	920	6	2.0	0.180	0.031	4.870		8.15	0.090
830321	0930	33055	10<	6	1.0	0.080	0.034	4.120	0.030<	8.05	0.064
830418	0930	33081	10AID	6	4.0	0.030	0.018	5.500	0.030<	8.32	0.010
830516	0935	33109	20	6	9.0	0.005	0.052	4.400	0.030<	8.09	0.010
830620	0935	33137	72	6	19.0	0.015	0.015	1.920	0.030<	8.01	0.001
830719	0935	33165	104	6	24.0	0.040	0.012	0.010<	0.750	0.030<	8.01
830816	0935	33193	192	6	20.0	0.020	0.024	3.000	0.030<	8.15	0.018
830920	0935	33221		6	19.0	0.025	0.013	1.150	0.003<	8.04	0.007
831017	0935	33349		6	10.0	0.010	0.014	4.940	0.004	8.08	0.020
831122	0935	33377		6	4.5	0.020	0.024	2.000	0.003<	7.81	0.024
831220	0915	33403	520	6	1.0	0.110	0.021	5.580	0.003	7.89	0.030

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

77

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT HIGHWAY 7  
 STATION TYPE: RIVER

STATION ID: 04-0013-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 12 29.81 LONG: 081 12 28.50 U T M: 17 0483110.0 4783750.0 4 REGION: 01 DISTANCE: 243.326

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS MF CNT /100ML	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NN02FR NO2-N FIL.REAC MG/L AS N	NN03FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PP04FR PO4 FIL.REAC MG/L AS P
MAXIMUM		920		24.0	0.220	0.052	5.580	1.010	0.004	8.32	0.090
ARITH MEAN		318		9.5	0.063	0.025	3.825	0.786	0.003	8.07	0.028
GEOM MEAN					0.035	0.022		0.777		8.07	0.017
MINIMUM		10		0.0	0.005	0.012	1.150	0.620	0.003	7.81	0.001
STD DEV (GEOM *)					0.071	0.012		0.126		0.14	0.026
# SAMP IN STATISTICS		8		12	12	12	11	12	2	12	12
% SAMP (EXCLUDED)		11					8		81		

*INTERIM TEST-NAME:		PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
830201	0930	33003	0.059	4	2.9	2100	7600	4.90	0.020
830221	0930	33029	0.159	4<	15.5	3400	16800	13.70	
830321	0930	33055	0.088	4<	5.2	2200	4400	3.60	0.0100<
830418	0930	33081	0.032	4<	2.8	1100	8000	5.30	0.0200
830516	0935	33109	0.031	4	3.5	440C	7400	4.60	0.0100<
830620	0935	33137	0.032	4<	3.8	1100C	29000	3.30	0.0100<
830719	0935	33165	0.050	4	6.1	160C	24000	5.60	0.0100
830816	0935	33193	0.080	4	16.5	2900C	57000	12.30	0.0200
830920	0935	33221	0.070		16.3			11.60	0.004
831017	0935	33349	0.057		9.6			7.20	0.002
831122	0935	33377	0.147		86.2			24.00	0.006
831220	0915	33403	0.058	4<	11.0	200AID	3000	6.70	0.002
MAXIMUM		0.159	4	86.2	3400	57000	24.00	0.0200	
ARITH MEAN		0.072	4	14.9	1511	17467	8.57	0.010	
GEOM MEAN		0.063		8.4	972	11652	7.15		
MINIMUM		0.031	4	2.8	160	3000	3.30	0.002	
STD DEV (GEOM *)		0.042		23.1	3*	3*	5.99		
# SAMP IN STATISTICS		12	4	12	9	9	12	8	
% SAMP (EXCLUDED)			55					27	

## 1983 WATER QUALITY DATA REGION 1

78

B.D.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT CONCESSION ROAD 2 SOUTH OF MITCHELL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD014

STATION ID: 04-0013-044-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 26 50.47 LONG: 081 12 27.43

U T M: 17 0483200.0 4810300.0 4

REGION: 01

DISTANCE: 279.374

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
				AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	TIME	SAMPLE	PROJECT							
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ							
			M	CODE							
830201	1055	33007	0.30	0101	282.0	1.41	29.000	680.0	0.010	12.0	790
830221	1015	33033	0.30	0101	214.0	2.07	12.000	510.0	0.0100	8.0	1600
830321	1055	33059	0.30	0101	274.0	1.85	21.500	635.0	0.0100	11.0	250
830418	1100	33085	0.30	0101	265.0	0.68	17.500	615.0	0.0100<	14.0	80AID
830516	1100	33113	0.30	0101	242.0	1.42	17.000	575.0	0.0100<	10.0	1400
830620	1100	33141	0.30	0101	192.0	0.58	18.000	505.0	0.0100	10.0	80AID
830719	1100	33169	0.30	0101	175.0	5.36	26.000	472.0	0.0100<	9.0	144
830816	1100	33197	0.30	0101	279.0	1.72	16.500	610.0	0.0100	8.0	156
830920	1100	33225	0.30	0101	230.0	2.69	24.500	555.0	0.006	7.0	
831017	1100	33353	0.30	0101	314.0	0.65	18.500	705.0	0.003	11.0	
831122	1100	33381	0.30	0101	309.0	0.63	19.000	710.0	0.003	10.0	
831220	1100	33407	0.30	0101	309.0	0.80	19.500	720.0	0.003	11.0	210
											880
		MAXIMUM	0.30		314.0	5.36	29.000	720.0	0.0100	14.0	1600
		ARITH MEAN	0.30		257.1	1.65	19.917	607.7	0.007	10.1	523
		GEOM MEAN			252.9	1.31	19.425	602.0		9.9	287
		MINIMUM	0.30		175.0	0.58	12.000	472.0	0.003	7.0	80
		STD DEV (GEOM *)			46.6	1.35	4.656	85.8		1.9	3*
		# SAMP IN STATISTICS	12		12	12	12	12	9	12	9
		% SAMP (EXCLUDED)						25			8
											11
*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH	PP04FR
					NH3-N			K'DAHL N			
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P
SAMPLE	DATE	TIME	FLOW	STREAM	WATER						
YYMMDD	LMT	NUMBER	M3	COND.	TEMP						
			/S		DEG.C						
830201	1055	33007	0.589	4 6	0.0	0.230	0.037	5.400	0.900	0.030<	8.10
830221	1015	33033	9.690	6	0.0	0.240	0.023	5.730	1.160	0.030<	7.90
830321	1055	33059	1.770	6	1.0	0.030	0.030	5.220	0.810	0.030<	8.20
830418	1100	33085	4.390	6	4.0	0.005<	0.017	7.200	0.530	0.030<	7.98
830516	1100	33113	2.830	6	9.0	0.060	0.083	6.100	0.820	0.030<	8.04
830620	1100	33141	0.845	6	21.0	0.005	0.110	1.840	0.670	0.030<	8.40
830719	1100	33169	0.055	6	25.0	0.030	0.145	1.900	1.710	0.030<	8.14
830816	1100	33197	0.743	6	20.0	0.020	0.034	6.100	0.860	0.030<	8.19
830920	1100	33225	1.040	6	19.0	0.060	0.062	2.800	1.280	0.003<	8.05
831017	1100	33353	2.800	6	10.5	0.020	0.025	8.130	0.850	0.003<	8.14
831122	1100	33381	5.840	6	5.0	0.010	0.023	3.780	0.660	0.003<	7.96
831220	1100	33407	3.500	4	0.0	0.070	0.029	8.670	0.830	0.003<	7.80

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

79

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT CONCESSION ROAD 2 SOUTH OF MITCHELL  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD014

STATION ID: 04-0013-044-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 26 50.47 LONG: 081 12 27.43 U T M: 17 0483200.0 4810300.0 4 REGION: 01 DISTANCE: 279.374

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR P04 FIL.REAC
SAMPLE DATE	HR	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	MG/L AS P

MAXIMUM	9.690			25.0	0.240	0.145	8.670	1.710		8.40	0.131
ARITH MEAN	2.841			9.5	0.070	0.051	5.239	0.923		8.07	0.038
GEOM MEAN	1.588					0.041	4.689	0.880		8.07	0.018
MINIMUM	0.055			0.0	0.005	0.017	1.840	0.530		7.80	0.001
STD DEV (GEOM *)	2.769					0.041	2.266	0.321		0.16	0.040
# SAMP IN STATISTICS	12			12	11	12	12	12		12	12
% SAMP (EXCLUDED)					8						

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB	ZNUT
SAMPLE DATE	HR	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	MF CNT /100HL	BCKGRD CNT /100HL	TURB'ITY FTU	UNF.TOT. MG/L AS ZN

830201	1055	33007	0.073	4	5.8	5500	10000	5.10	0.060
830221	1015	33033	0.232	12	19.9	4900	16900	19.10	0.0200
830321	1055	33059	0.172	4<	8.3	3700	3900	5.10	0.0100<
830418	1100	33085	0.026	4<	2.3	600C	7000	2.10	0.0100<
830516	1100	33113	0.058	4	10.8	5800C	29000	12.70	0.0100<
830620	1100	33141	0.023	8	1.9	900AID	19300	1.51	0.0100
830719	1100	33169	0.147	4<	17.7	330C	24000>	8.20	0.0100<
830816	1100	33197	0.064	8	19.1	6300C	63000	11.80	0.0100
830920	1100	33225	0.135		17.8			14.10	0.003
831017	1100	33353	0.054		9.2			7.30	0.001
831122	1100	33381	0.051		10.8			6.30	0.007
831220	1100	33407	0.066	8	17.3	1800	4300	8.90	0.006

MAXIMUM	0.232	12	19.9	6300	63000	19.10	0.060
ARITH MEAN	0.092	7	11.7	3314	19175	8.52	0.015
GEOM MEAN	0.073		9.4	2192		6.88	
MINIMUM	0.023	4	1.9	330	3900	1.51	0.001
STD DEV (GEOM *)	0.065		6.5	3*		5.15	
# SAMP IN STATISTICS	12	6	12	9	8	12	8
% SAMP (EXCLUDED)		33			11		33



## 1983 WATER QUALITY DATA REGION 1

80

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: 1.4 MILES DOWNSTREAM OF ST MARYS  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD005

STATION ID: 04-0013-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 14 18.63 LONG: 081 10 11.86 U T M: 17 0486200.0 4787100.0 4 REGION: 01 DISTANCE: 251.051

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF	
					BOD 5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	TOTAL MG/L AS CAC03	TOT.DEM. MG/L AS O	UNF.REAC MG/L AS CL-	25C UMHO/CM AT 25 C	UNF.TOT. MG/L AS CU	OXYGEN MG/L AS O	COLIFORM HF CNT /100ML	STREPCUS HF CNT /100ML
830201	1035	33006	0.30	0101	260.0	1.44	45.500	720.0	0.010	9.0	380	504
830221	1015	33032	0.30	0101	205.0	2.27	17.000	510.0	0.0100	10.0	770	780
830321	1035	33058	0.30	0101	256.0	1.36	25.000	615.0	0.0100	9.0	180	40AID
830418	1020	33083	0.30	0101			23.000	600.0	0.0100<	12.0	120	30AID
830516	1020	33111	0.30	0101			21.500	580.0	0.0100<	11.0	112	4
830620	1020	33139	0.30	0101			24.500	510.0	0.0100	11.0	64	8
830719	1020	33167	0.30	0101			31.000	540.0	0.0100<	8.0	600	112
830816	1020	33195	0.30	0101			19.000	560.0	0.0100<	10.0	470	190
830920	1020	33223	0.30	0101			29.000	490.0	0.004	9.0		
831017	1020	33351	0.30	0101			22.500	660.0	0.003	10.0		
831122	1020	33379	0.30	0101			22.500	690.0	0.009	9.0		
831220	1020	33405	0.30	0101			23.000	680.0	0.003	12.0	70AID	360
MAXIMUM		0.30			260.0	2.27	45.500	720.0	0.0100	12.0	770	780
ARITH MEAN		0.30			240.3	1.69	25.292	596.2	0.007	10.0	307	225
GEOM MEAN					239.0	1.64	24.492	591.6		9.9	213	79
MINIMUM		0.30			205.0	1.36	17.000	490.0	0.003	8.0	64	4
STD DEV (GEOM *)					30.7	0.50	7.411	77.7		1.3	3*	6*
# SAMP IN STATISTICS		12			3	3	12	12	8	12	9	9
% SAMP (EXCLUDED)									33			

*=INTERIM TEST-NAME:		FNFLOW	FNSTRC	FNTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
					NH3-N TOTAL	N02-N TOTAL	N03-N TOTAL	K'DAHL N TOTAL	LEAD		P04
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	STREAM FLOW M3 /S	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P
830201	1035	33006	5.240	6	0.0	0.485	0.036	4.600	0.990	0.030<	0.048
830221	1015	33032	28.200	6	0.0	0.245	0.032	5.320	1.320	0.030<	0.101
830321	1035	33058	8.110	6	1.0	0.085	0.030	4.270	0.800	0.030<	0.069
830418	1020	33083	17.000	6	4.0	0.060	0.022	0.620	0.030<	8.28	0.030
830516	1020	33111	11.400	6	10.0	0.125	0.063	4.800	0.820	0.030<	0.010
830620	1020	33139	5.270	6	20.0	0.005<	0.101	2.050	0.810	0.030<	0.001
830719	1020	33167	2.200	6	25.0	0.035	0.045	1.070	0.880	0.030<	0.010
830816	1020	33195	7.370	6	21.0	0.025	0.043	3.400	0.700	0.030<	0.026
830920	1020	33223	6.270	6	20.0	0.035	0.029	1.320	0.910	0.003<	0.014
831017	1020	33351	9.050	6	10.0	0.005	0.017	5.780	0.840	0.003<	0.030
831122	1020	33379	19.900	6	5.0	0.035	0.039	6.600	0.670	0.008	0.037
831220	1020	33405	14.200	6	0.0	0.100	0.024	6.530	0.610	0.003<	0.030

( CONT D )

## 1983 WATER QUALITY DATA REGION 1

81

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: 1.4 MILES DOWNSTREAM OF ST MARYS  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD005

STATION ID: 04-0013-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 14 18.63 LONG: 081 10 11.86 U T M: 17 0486200.0 4787100.0 4 REGION: 01 DISTANCE: 251.051

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTR NH3-N TOTAL	NNQ2FR NO2-N	NNQ3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PPQ4FR PO4
SAMPLE DATE	HR	STREAM FLOW M3	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P
YYMMDD	LMT	SAMPLE NUMBER									

MAXIMUM	28.200			25.0	0.485	0.101	6.600	1.320	0.008	8.44	0.101
ARITH MEAN	11.184			9.7	0.112	0.040	4.158	0.831	0.008	8.21	0.034
GEOM MEAN	9.090					0.036	3.578	0.813		8.20	0.022
MINIMUM	2.200			0.0	0.005	0.017	1.070	0.610	0.008	7.92	0.001
STD DEV (GEOM *)	7.460					0.023	1.970	0.193		0.15	0.028
# SAMP IN STATISTICS	12			12	11	12	11	12	1	12	12
% SAMP (EXCLUDED)					8				91		

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB	ZNUT
SAMPLE DATE	HR	PHOSPHOR UNF.TOT. MG/L	MF CNT /100ML	RESIDUE PARTIC. MG/L	MF CNT /100ML	BCKGRD CNT /100ML	TURB*ITY FTU	ZINC UNF.TOT. MG/L AS ZN
YYMMDD	LMT	SAMPLE NUMBER	AS P					

830201	1035	33006	0.066	4<	2.7	2500	10700	4.90	0.020
830221	1015	33032	0.174	4	19.9	4400	16200	13.80	0.0100
830321	1035	33058	0.094	4	4.1	1400	3800	3.90	0.0100<
830418	1020	33083	0.053	4	3.0			5.60	0.0500
830516	1020	33111	0.047	4<	4.5			5.20	0.0100<
830620	1020	33139	0.044	4<	3.7			2.60	0.0100
830719	1020	33167	0.061	4	10.0			7.60	0.0100<
830816	1020	33195	0.073	4	15.1			11.60	0.0100<
830920	1020	33223	0.085		19.7			12.80	0.004
831017	1020	33351	0.054		12.9			6.50	0.001
831122	1020	33379	0.058		6.7			5.60	0.039
831220	1020	33405	0.056	4	4.6			4.10	0.003
MAXIMUM	0.174	4	19.9	4400	16200	18.80	0.0500		
ARITH MEAN	0.072	4	8.9	2767	10233	7.43	0.017		
GEOM MEAN	0.067		7.0	2488	8701	6.38			
MINIMUM	0.044	4	2.7	1400	3800	2.60	0.001		
STD DEV (GEOM *)	0.035		6.5	2*	2*	4.68			
# SAMP IN STATISTICS	12	6	12	3	3	12	8		
% SAMP (EXCLUDED)		33					33		

## 1983 WATER QUALITY DATA REGION 1

82

B.O.W./ SITE: TILBURY CREEK  
 SAMPLE POINT: AT HIGHWAY 2 WEST OF TILBURY  
 STATION TYPE: RIVER

STATION ID: 04-0013-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 15 49.05 LONG: 082 26 58.12 U T M: 17 0380450.0 4679850.0 4 REGION: 01 DISTANCE: 9.012

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	HF CNT /100ML	HF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830124	1301	35004	0.30	0101	43.000	940.0	70AID	80AID	4	3.0	0.155	0.035
830228	1116	35020	0.30	0101	31.000	670.0	156	600>	6 9	4.0	0.005	0.044
830328	1110	35037	0.30	0101	26.000	421.0	980	800	6 9	4.0	0.295	0.170
830425	1150	35054	0.30	0101	27.500	700.0	50AID	20AID	6	9.0	0.140	0.050
830524	1235	35071	0.30	0101	21.500	550.0	480	280	6	18.0	0.080	0.073
830627		35101	0.30	0101	37.000	655.0	50AID	90AID			0.315	0.181
830725	1211	35105	0.30	0101	27.500	510.0	216	32	6	28.0	0.050	0.076
830822	1154	35121	0.30	0101	25.500	475.0	600>	512	6	25.0	0.415	0.150
830926	1210	35138	0.30	0101	32.000	530.0			6	18.0	0.560	0.086
831024	1215	35155	0.30	0101	39.500	550.0			6	12.0	0.075	0.086
831128	1259	35173	0.30	0101	45.500	265.0			6	7.0	0.540	0.290
MAXIMUM		0.30			45.500	940.0	980	800		28.0	0.560	0.290
ARITH MEAN		0.30			32.364	569.6	286	259		12.8	0.239	0.113
GEOM MEAN					31.526	544.7				9.8	0.139	0.092
MINIMUM		0.30			21.500	265.0	50	20		3.0	0.005	0.035
STD DEV (GEOM *)					7.830	173.6				9.0	0.198	0.077
# SAMP IN STATISTICS		11			11	11	7	7	10	11	11	11
% SAMP (EXCLUDED)							12	12				

*=INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L
830124	1301	35004	7.020	0.970	7.76	0.168	0.179	3.3
830228	1116	35020	5.560	2.800	8.03	0.440	0.850	110.6
830328	1110	35037	10.200	3.600	7.76	0.330	0.885	208.9
830425	1150	35054	6.900	1.380	8.02	0.034	0.110	37.7
830524	1235	35071	4.500	1.740	7.81	0.041	0.200	51.2
830627		35101	1.280	2.300	7.80	0.173	0.340	59.1
830725	1211	35105	0.920	2.920	9.02	0.016	0.495	58.5
830822	1154	35121	1.160	2.100	7.73	0.113	0.445	143.1
830926	1210	35138	4.600	2.360	7.46	0.825	0.990	85.7
831024	1215	35155	7.400	3.200	7.58	0.148	0.460	99.3
831128	1259	35173	3.760	6.100	7.61	0.705	2.100	659.6

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

83

B.O.W./ SITE: TILBURY CREEK  
 SAMPLE POINT: AT HIGHWAY 2 WEST OF TILBURY  
 STATION TYPE: RIVER

STATION ID: 04-0013-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 15 49.05 LONG: 082 26 58.12

U T M: 17 0380450.0 4679850.0 4

REGION: 01

DISTANCE: 9.012

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN	
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	
SAMPLE		MG/L	MG/L		MG/L	MG/L	MF	RESIDUE
DATE	HHMM	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.
YYMMDD	LMT	NUMBER	AS N				/100ML	MG/L
MAXIMUM		10.200	6.100	9.02	0.825	2.100	276	659.6
ARITH MEAN		4.845	2.679	7.87	0.272	0.641	68	137.9
GEOM MEAN		3.766	2.401	7.86	0.151	0.464		74.8
MINIMUM		0.920	0.970	7.46	0.016	0.110	4	3.3
STD DEV (GEOM *)		2.962	1.377	0.42	0.276	0.568		181.8
# SAMP IN STATISTICS		11	11	11	11	11	6	11
% SAMP (EXCLUDED)							25	

## 1983 WATER QUALITY DATA REGION 1

84

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 16 KOMOKA  
 STATION TYPE: RIVER

STATION ID: 04-0013-047-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 56 05.41 LONG: 081 25 19.91 U T M: 17 0465550.0 4753450.0 4 REGION: 01 DISTANCE: 184.748

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	BOD5	CCNAUR	CCNFUR	CDUT	CLIDUR	COND25
						BOD	CYANIDE	CYANIDE			
						5 DAY	AVAIL	FREE	CADMIUM	CHLORIDE	CONDUCT.
						TOT.DEM.	UNF.REAC	UNF.REAC	UNF.TOT.	UNF.REAC	25C
						MG/L	MG/L	MG/L	MG/L	MG/L	UMHO/CM
						AS O	AS HCN	AS HCN	AS CD	AS CL-	AT 25 C
SAMPLE					ALK	ARSENIC					
DATE	HR	SAMPLE	SAMPLE	PROJECT	TOTAL	UNF.TOT.	TOT.DEM.	UNF.REAC	UNF.REAC	UNF.TOT.	CONDUCT.
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	25C
			M	CODE	AS CAC03	AS AS	AS O	AS HCN	AS HCN	AS CD	AT 25 C

830203		33013	0.30	0101	211.0	0.001<	4.59			0.0020<	33.000	580.0
830222	0920	33039	0.30	0101	227.0	0.001<	2.21			0.0020<	25.000	585.0
830322	0920	33065	0.30	0101	236.0	0.001	2.58	0.002<T		0.0200<	30.500	620.0
830419	0920	33093	0.30	0101	229.0	0.001<	1.05		0.001<W	0.0020<	23.500	585.0
830518	0920	33121	0.30	0101	220.0	0.001<	2.05	0.001<W		0.0020<	27.000	580.0
830622	0920	33149	0.30	0101	194.0	0.001	1.31		0.001<W	0.0020<	33.000	565.0
830720	0920	33177	0.30	0101		0.001			0.002			
830817	0920	33205	0.30	0101	225.0	0.001	1.34		0.001<W	0.0020<	27.500	580.0
830921	0920	33333	0.30	0101	176.0	0.001	1.90		0.001		30.000	515.0
831018	0920	33361	0.30	0101	217.0	0.001<	1.57	0.001<W		0.0002	33.000	605.0
831123	0920	33387	0.30	0101	268.0	0.001<	2.19	0.001<W		0.0002<	31.000	670.0
831221	0920	33413	0.30	0101	258.0	0.001<	2.00	0.002<T		0.0003	32.500	665.0
		MAXIMUM	0.30		268.0	0.001	4.59	0.002	0.002	0.0003	33.000	670.0
		ARITH MEAN	0.30		223.7	0.001	2.07	0.001<A	0.001<A	0.0002	29.636	595.5
		GEOM MEAN			222.3		1.92	0.001<A	0.001<A		29.450	594.0
		MINIMUM	0.30		176.0	0.001	1.05	0.001	0.001	0.0002	23.500	515.0
		STD DEV (GEOM *)			25.9		0.95	0.001<A	0.000<A		3.399	44.1
		# SAMP IN STATISTICS	12		11	5	11	5	5	2	11	11
		% SAMP (EXCLUDED)				58				80		

*INTERIM TEST-NAME:		CRUT	CUUT	DO	FCHF	FEUT	FSMF	FWSTRC	FWTEMP	HGUT	NIUT
					FECAL		FECAL				
					COLIFORM	IRON	STREPCUS			MERCURY	NICKEL
					MF	UNF.TOT.	MF			UNF.TOT.	UNF.TOT.
					CNT	MG/L	CNT			UG/L	MG/L
					/100ML	AS FE	/100ML			AS HG	AS NI
SAMPLE											
DATE	HR	SAMPLE	CHROMIUM	COPPER	DISOLVED						
YYMMDD	LMT	NUMBER	UNF.TOT.	UNF.TOT.	OXYGEN						
			MG/L	MG/L	MG/L						
			AS CR	AS CU	AS O						

830203		33013	0.0200<	0.0100	11.0	3900	1.8600	10400	6 3	1.5		
830222	0920	33039	0.0200<	0.0100	9.0	600 AID	0.3300	300AID	6	3.0		
830322	0920	33065	0.0200<	0.0100<	12.0	1430	0.3000	300	6	0.1	0.02	
830419	0920	33093	0.0200	0.0500	11.0	160.0	0.8300		6	5.0	0.01	
830518	0920	33121	0.0200<	0.0100	8.0	30 AID	0.3200	20AID	6	12.0	0.02	
830622	0920	33149	0.0200<	0.0100<	7.0	92	0.1100	16	6	22.0	0.03<	
830720	0920	33177			7.0				6	26.0	0.02	
830817	0920	33205	0.0200<	0.0100	7.0	600 >	0.5400	64	6	21.0	0.02	
830921	0920	33333			9.0				6	17.0	0.02U	
831018	0920	33361	0.003	0.010	9.0		0.420		6	10.0	0.01	0.005
831123	0920	33387	0.004	0.011	8.0		0.530		6	4.0	0.01<	0.005
831221	0920	33413	0.004	0.009	10.0	600 >	0.210	576	6	0.0	0.01<	0.004

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

85

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 16 KOMOKA  
 STATION TYPE: RIVER

STATION ID: 04-0013-047-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 56 05.41 LONG: 081 25 19.91

U T M: 17 0465550.0 4753450.0 4

REGION: 01

DISTANCE: 184.748

*INTERIM TEST-NAME:		CRUT	CUUT	DO	FCMF FECAL COLIFORM	FEUT IRON	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	HGUT	NIUT
		CHROMIUM UNF.TOT. MG/L	COPPER UNF.TOT. MG/L	DISSOLVED OXYGEN MG/L	MF CNT /100ML	UNF.TOT. MG/L	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	MERCURY UNF.TOT. UG/L	NICKEL UNF.TOT. MG/L
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	AS CR	AS CU	AS O	AS FE				AS HG	AS NI
		MAXIMUM	0.0200	0.0500	12.0	3900	1.8600				
		ARITH MEAN	0.008	0.015	9.0	1035	0.545		26.0	0.02	0.005
		GEOM MEAN			8.9		0.410		10.1	0.02	0.005
		MINIMUM	0.003	0.009	7.0	30	0.1100		0.0	0.01	0.004
		STD DEV (GEOM *)			1.7		0.504				0.001
		# SAMP IN STATISTICS	4	8	12	6	10		12	7	3
		% SAMP (EXCLUDED)	60	20		25				30	

*INTERIM TEST-NAME:		NNHFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	PSAMF PSEUDOMN AERUG. MF CNT /100ML
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	PHENOL UG/L	MG/L AS P	MG/L AS P
830203		33013	0.065	0.215	4.390	1.110	0.030<	7.09	2.500	0.070	0.195
830222	0920	33039	0.045	0.167	5.400	0.870	0.030<	8.12		0.064	0.102
830322	0920	33065	0.115	0.062	5.200	0.910	0.030<	8.24	1.000<	0.014	0.071
830419	0920	33093	0.075	0.019	5.600	0.750	0.030<	8.25	1.000		0.083
830518	0920	33121	0.040	0.045	4.610	0.940	0.030<	8.42	1.000<	0.017	0.089
830622	0920	33149	0.090	0.105	3.600	1.040	0.030<	8.12		0.105	0.153
830817	0920	33205	0.025	0.019	3.500	0.930	0.030<	8.19	1.000	0.079	0.157
830921	0920	33333	0.080	0.042	2.600	0.850		8.08	2.000	0.170	0.250
831018	0920	33361	0.065	0.044	3.460	0.700	0.003<	8.23	1.000	0.123	0.162
831123	0920	33387	0.040	0.035	5.620	0.690	0.003<	8.18	1.000<	0.036	0.113
831221	0920	33413	0.115	0.057	6.540	0.750	0.003<	8.08	1.500	0.067	0.095
		MAXIMUM	0.115	0.215	6.540	1.110		8.42	2.500	0.170	0.250
		ARITH MEAN	0.069	0.074	4.593	0.867		8.09	1.500	0.074	0.134
		GEOM MEAN	0.062	0.055	4.441	0.858		8.08		0.058	0.124
		MINIMUM	0.025	0.019	2.600	0.690		7.09	1.000	0.014	0.071
		STD DEV (GEOM *)	0.030	0.063	1.198	0.137		0.35		0.048	0.055
		# SAMP IN STATISTICS	11	11	11	11		11	6	10	11
		% SAMP (EXCLUDED)							33		25

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

86

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD 16 KOMOKA  
 STATION TYPE: RIVER

STATION ID: 04-0013-047-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 56 05.41 LONG: 081 25 19.91 U T M: 17 0465550.0 4753450.0 4 REGION: 01 DISTANCE: 184.748

*INTERIM TEST-NAME:		PIPCBT	RSP	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB IDITY FTU	X3245 2,4,5 TRCHLORO PHENOL NG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOURL LHT	SAMPLE NUMBER	PCB TOTAL NG/L	RESIDUE PARTIC. MG/L				
830203		33013	20<W	61.7	26000	48000	43.00	50<W 0.0300
830222	0920	33039	20<W	11.8	4500	7800	6.70	50<W 0.0100
830322	0920	33065	20<W	11.8	10500	10100		50<W 0.0100<
830419	0920	33093	20<W	16.4			18.90	50<W
830518	0920	33121	35	8.3	2500	24008.0	6.80	50<W 0.0100<
830622	0920	33149	20<W	5.9	1900C	31000	4.70	50<W 0.0100<
830720	0920	33177	20<W					50<W
830817	0920	33205	20<W	15.4	5200C	34000	11.80	50<W 0.0100
830921	0920	33333	20<W	54.7			39.00	50<W
831018	0920	33361	20<W	15.5			9.40	50<W 0.005
831123	0920	33387		44.7			19.00	50<W 0.010
831221	0920	33413	20<W	8.7	12000	9400	3.80	50<W 0.007
MAXIMUM			35	61.7	26000	48000	43.00	50 0.0300
ARITH MEAN			21<A	23.2	8943	23473	16.31	50<A 0.012
GEOM MEAN			21<A	17.0	6230	19017	11.84	50<A
MINIMUM			20	5.9	1900	7800	3.80	50 0.005
STD DEV (GEOM *)			5<A	20.2	3*	2 *	14.08	0<A
# SAMP IN STATISTICS			11	11	7	7	10	12 6
% SAMP (EXCLUDED)								33

## 1983 WATER QUALITY DATA REGION 1

87

B.O.W./ SITE: MC GREGOR CREEK  
 SAMPLE POINT: AT HARNICH-HOWARD TOWNLINE  
 STATION TYPE: RIVER

STATION ID: 04-0013-049-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 26 43.87 LONG: 081 59 07.90

U T M: 17 0418950.0 4699500.0 4

REGION: 01

DISTANCE: 50.693

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FEUT
					BOD					FECAL	
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	IRON
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	UNF.TOT.
SAMPLE	DATE	SAMPLE	PROJECT	MG/L	MG/L	MG/L	UMHO/CN	MG/L	MG/L	CNT	MG/L
DATE	TIME	NUMBER	SUB-PROJ	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	AS FE
YYMMDD	LMT		CODE								
830124	1646	35009	0101	230.0	0.97	38.500	805.0	0.0100<	13.5	1050	1.4700
830228	1355	35025	0101	238.0	0.24	43.500	840.0	0.0100	13.0	60AID	0.8800
830328	1444	35042	0101	203.0	1.38	52.500	800.0	0.0100	12.0	570	3.0000
830425	1514	35059	0101	152.0	16.20	14.000	665.0		20.5	10AID	
830524	1535	35076	0101	232.0	1.27	36.000	780.0	0.0100	9.0	504	3.4200
830627	1420	35092	0101	208.0	5.56	37.000	720.0	0.0100<	8.0	1300	2.7600
830725	1438	35110	0101	166.0		38.000	665.0	0.0100<	6.5	310	2.9800
830822	1358	35126	0101	214.0	2.52	29.000	760.0	0.0200	6.0	600>	18.8000
830926	1511	35143	0101	241.0	2.48	43.000	815.0	0.0090	16.5		
831024	1430	35160	0101	255.0	2.28	66.000	890.0	0.007	18.5		
831128	1520	35177	0101	144.0	5.48	44.500	605.0	0.051	9.5		
MAXIMUM		0.30		255.0	16.20	66.000	890.0	0.051	20.5	1300	18.8000
ARITH MEAN		0.30		207.5	3.84	40.182	758.6	0.017	12.1	543	4.7586
GEOM MEAN				204.1	2.22	37.847	754.0		11.2		2.9729
MINIMUM		0.30		144.0	0.24	14.000	605.0	0.007	6.0	10	0.8800
STD DEV (GEOM *)				37.8	4.69	13.045	86.0		4.9		6.2591
# SAMP IN STATISTICS		11		11	10	11	11	7	11	7	7
% SAMP (EXCLUDED)								30		12	

*INTERIM TEST-NAME:		FSMF	FNSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
		FECAL			NH3-N			K'DAHL N			
		STREPCUS			TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PO4
		MF		WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
SAMPLE	DATE	CNT	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
DATE	TIME	/100ML	COND.	DEG.C	AS N	AS N	AS N	AS N	AS PB	PH	AS P
YYMMDD	LMT										
830124	1646	400	4	1.0	0.485	0.034	5.720	1.070	0.030<	7.92	0.055
830228	1355	30AID	6	4.0	0.060	0.017	7.100	0.900	0.030<	8.13	0.015
830328	1444	620	6	4.0	0.015	0.102	7.200	1.240	0.030<	7.90	0.029
830425	1514	10AID	6	10.0	0.030	0.050	4.900	6.200		8.27	0.003
830524	1535	35076	6	22.0	0.060	0.054	7.600	0.988	0.030<	8.18	0.026
830627	1420	35092	6	27.0	0.010	0.039	3.700	1.700	0.030<	7.91	0.070
830725	1438	35110	6	32.0	0.945	0.081	1.880	1.700	0.030<	7.67	0.012
830822	1358	35126	9	25.0	0.840	0.182	3.000	2.850	0.030<	7.82	0.029
830926	1511	35143	6	16.5	0.220	0.083	3.020	0.820	0.004	8.18	0.067
831024	1430	35160	6	12.0	0.235	0.105	4.500	0.970	0.003<	8.10	0.092
831128	1520	35177	6	7.0	0.365	0.062	6.800	4.500	0.023	7.50	0.165

(CONTD)



## 1983 WATER QUALITY DATA REGION 1

88

B.O.W./ SITE: MC GREGOR CREEK  
 SAMPLE POINT: AT HARWICH-HOWARD TOWNLINE  
 STATION TYPE: RIVER

STATION ID: 04-0013-049-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 26 43.87 LONG: 081 59 07.90 U T M: 17 0418950.0 4699500.0 4 REGION: 01 DISTANCE: 50.693

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS MF CNT	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNO2FR NO2-N FIL.REAC MG/L AS N	NNO3FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PP04FR P04 FIL.REAC MG/L AS P
MAXIMUM		620		32.0	0.945	0.182	7.600	6.200	0.023	8.27	0.165
ARITH MEAN		278		14.6	0.297	0.074	5.038	2.085	0.013	7.96	0.051
GEOM MEAN		155		10.0	0.125	0.062	4.631	1.629		7.96	0.033
MINIMUM		10		1.0	0.010	0.017	1.880	0.820	0.004	7.50	0.003
STD DEV (GEOM *)		4*		10.6	0.333	0.046	1.984	1.757		0.24	0.047
# SAMP IN STATISTICS		8		11	11	11	11	11	2	11	11
% SAMP (EXCLUDED)									80		

*INTERIM TEST-NAME:		PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF CNT	RSP RESIDUE PARTIC. MG/L	TCHF COLIFORM TOTAL MF CNT	TCHFBK COLIFORM TOTAL MF BCKGRD CNT	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
830124	1646	35009	0.104	472	26.5	12000	41000	37.00	0.0200
830228	1355	35025	0.051	4<	28.0	280	850	20.00	0.0100<
830328	1444	35042	0.138	4<	91.5	7300C	69000	73.00	0.0200
830425	1514	35059	0.560	4<	39.7	1000	4800	16.40	
830524	1535	35076	0.145	4<	53.9	9700C	42000	82.00	0.0200
830627	1420	35092	0.340	16	176.6	4000AID	130000	154.00	0.0300
830725	1438	35110	0.128	68	82.0	2900	6400	77.00	0.0100<
830822	1358	35126	0.670	16	478.0	19000>	70000	396.00	0.1000
830926	1511	35143	0.218		164.2			82.00	0.020
831024	1430	35160	0.190		73.0			84.00	0.014
831128	1520	35177	1.400		1246.2			1020.00	0.180
MAXIMUM		1.400	472	1246.2	12000	130000	1020.00	0.180	
ARITH MEAN		0.359	143	223.6	5311	45506	185.58	0.050	
GEOM MEAN		0.231		103.8		20246	87.82		
MINIMUM		0.051	16	26.5	280	850	16.40	0.014	
STD DEV (GEOM *)		0.397		362.8		6*	295.95		
# SAMP IN STATISTICS		11	4	11	7	8	11	8	
% SAMP (EXCLUDED)			50		12			20	

## 1983 WATER QUALITY DATA REGION 1

89

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX COUNTY ROAD 28  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE015

STATION ID: 04-0013-050-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 05 46.43 LONG: 081 10 08.23 U T M: 17 0486250.0 4771300.0 4 REGION: 01 DISTANCE: 229.003

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR
						FECAL	FECAL				NH3-N
						COLIFORM	STREPCUS	STREAM		WATER	TOTAL
SAMPLE		SAMPLE	PROJECT	CHLORIDE	CONDUCT.	CNT	MF	FLOW		TEMP	FIL.REAC
DATE	HR	NUMBER	SUB-PROJ	UNF.REAC	25C	MF	CNT	M3	STREAM	DEG.C	MG/L
YYMMDD	LMT		CODE	MG/L	UMHO/CM	/100ML	/100ML	/S	COND.		AS N
				AS CL-	AT 25 C						
830201	0910	33002	0101	26.000	645.0	100	228	6.200	4 6	1.0	0.145
830221	0910	33028	0101	16.000	520.0	196	152	34.800	6	1.0	0.125
830321	0910	33054	0101	31.000	640.0	128	32	11.300	6	5.0	0.035
830418	0910	33080	0101	17.500	565.0	24	8	21.700	6	3.0	0.020
830516	0915	33108	0101	20.500	580.0	100	12	13.400	6	10.0	0.010
830620	0915	33136	0101	18.500	461.0	8	8	6.170	6	21.0	0.010
830719	0915	33164	0101	32.000	498.0	60	100	2.410	6	24.0	0.050
830816	0915	33192	0101	16.000	540.0	236	132	9.110	6	20.0	0.020
830920	0915	33220	0101	30.000	520.0			7.100	6	20.0	0.010
831017	0915	33348	0101	20.000	615.0			10.800	6	10.0	0.005
831122	0915	33376	0101	20.500	665.0			21.600	6	4.0	0.020
831220	0915	33402	0101	21.500	660.0	480	240	15.200	4	1.0	0.100
MAXIMUM		0.30		32.000	665.0	480	240	34.800		24.0	0.145
ARITH MEAN		0.30		22.458	575.7	148	101	13.316		10.0	0.046
GEOM MEAN				21.811	571.9	88	52	10.763		5.7	0.027
MINIMUM		0.30		16.000	461.0	8	8	2.410		1.0	0.005
STD DEV (GEOM *)				5.813	69.0	3*	4*	9.002		8.9	0.049
# SAMP IN STATISTICS		12		12	12	9	9	12		12	12
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	
				K*DAHL N				PSEUDOMN		
				TOTAL				AERUG.		
		FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	PHOSPHOR	HF	RESIDUE	
SAMPLE		MG/L	MG/L	MG/L		MG/L	MG/L	CNT	PARTIC.	
DATE	HR	AS N	AS N	AS N	PH	AS P	AS P	/100ML	MG/L	
YYMMDD	LMT									
830201	0910	33002	0.036	4.800	0.660	8.18	0.045	0.058	4<	1.4
830221	0910	33028	0.030	5.220	1.030	8.13	0.070	0.126	4<	11.4
830321	0910	33054	0.018	5.830	0.710	8.27	0.033	0.059	4<	4.1
830418	0910	33080	0.018	5.900	0.600	8.32	0.010	0.028	4<	2.9
830516	0915	33108	0.043	4.600	0.640	8.23	0.001	0.027	4<	3.8
830620	0915	33136	0.006	2.090	0.630	8.08	0.001	0.024	4<	5.1
830719	0915	33164	0.011	0.890	0.840	7.95	0.015	0.050	4<	19.0
830816	0915	33192	0.007	3.200	0.630	8.21	0.019	0.054	4	16.5
830920	0915	33220	0.006	1.360	0.670	8.15	0.002	0.050		20.5
831017	0915	33348	0.011	4.790	0.850	8.27	0.010	0.046		15.8
831122	0915	33376	0.030	2.000	2.350	8.11	0.020	0.475		236.8
831220	0915	33402	0.021	6.430	0.660	8.03	0.030	0.053	4<	4.9

(CONT'D)

## 90

STATION ID: 04-0013-050-02

STORET CODE: 02  
003  
2870

LAT: 43 05 46.43 LONG: 081 10 08.23 U T M: 17 0486250.0 4771300.0 4 REGION: 01 DISTANCE: 229.003

[illegible]

## 91

STATION ID: 04-0013-051-02

STORET CODE: 02  
003  
2870

**DISTANCE: 215.002**

MAXIMUM	0.30	791.0	49.000	730.0	0.020	730	0.9000	1370
ARITH MEAN	0.30	283.4	34.167	637.1	0.012	216	0.378	223
GEOM MEAN		261.5	33.417	635.1		148	0.341	56
MINIMUM	0.30	208.0	25.000	580.0	0.0100	24	0.1700	8
STD DEV (GEOM *)		161.1	7.602	53.9		3*	0.202	6*
# SAMP IN STATISTICS	12	12	12	12	9	9	12	9
% SAMP (EXCLUDED)					25			

*INTERIM		TEST-NAME:	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR	NNO3FR	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR	PPUT
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	LEAD	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P
830201	1400	33012	1.0	0.315	0.038	5.410	0.930	0.030<	8.28		0.001	0.068
830221	1400	33038	4.0	0.125	0.030	4.820	0.970	0.030<	8.14	1.000	0.001	0.113
830321	1400	33064	1.0	0.010	0.015	5.680	0.700	0.030<	7.82		0.006	0.034
830418	1430	33092	5.0	0.015	0.021	5.500	0.690	0.030<	8.20		0.001	0.054
830516	1430	33120	12.0	0.005	0.044	4.200	0.700	0.030<	8.37		0.001	0.047
830620	1430	33148	25.0	0.025	0.042	3.100	0.700	0.030<	8.49	1.000<	0.001	0.038
830719	1430	33176	29.0	0.030	0.021	1.850	0.970	0.030<	8.37		0.008	0.080
830816	1430	33204	23.0	0.015	0.025	3.400	0.830	0.030<	8.24		0.036	0.138
830920	1430	33232	22.0	0.020	0.019	2.800	0.830	0.003<	8.32		0.043	0.090
831017	1430	33360	11.5	0.005	0.019	3.080	0.630	0.003	8.41		0.007	0.032
831122	1400	33386	6.0	0.030	0.031	3.700	0.840	0.003<	8.34		0.025	0.083
831220	1400	33412	1.0	0.085	0.022	6.680	0.640	0.016	7.93		0.001	0.060

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

92

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX COUNTY ROAD 4  
 STATION TYPE: RIVER

STATION ID: 04-0013-051-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 07.81 LONG: 081 09 00.76

U T M: 17 0487750.0 4757150.0 4

REGION: 01

DISTANCE: 215.002

*=INTERIM	TEST-NAME:	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	UG/L PHENOL	MG/L AS P	MG/L AS P
	MAXIMUM	29.0	0.315	0.044	6.680	0.970	0.016	8.49	1.000	0.043	0.138
	ARITH MEAN	11.7	0.057	0.027	4.185	0.786	0.009	8.24	1.000	0.011	0.070
	GEOM MEAN	6.5	0.026	0.026	3.945	0.777		8.24		0.004	0.063
	MINIMUM	1.0	0.005	0.015	1.850	0.630	0.003	7.82	1.000	0.001	0.032
	STD DEV (GEOM *)	10.4	0.089	0.010	1.437	0.125		0.20		0.015	0.033
	# SAMP IN STATISTICS	12	12	12	12	12	2	12	1	12	12
	% SAMP (EXCLUDED)						83		50		

*=INTERIM	TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT.
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	MF CNT /100ML	MG/L	FTU	MG/L AS ZN
830201 1400	33012	24	5.0	4.20	0.010
830221 1400	33038	4<	10.2	7.70	0.0100
830321 1400	33064	4<	7.3	5.50	0.0100<
830418 1430	33092	4<	11.8	7.40	0.0100<
830516 1430	33120	4<	17.2	6.80	0.0100<
830620 1430	33148	4<	3.5	2.90	0.0100
830719 1430	33176	4<	27.6	20.00	0.0100<
830816 1430	33204	4	27.7	17.80	0.0100<
830920 1430	33232		16.9	11.10	0.004
831017 1430	33360		5.9	2.60	0.003
831122 1400	33386		14.0	7.20	0.006
831220 1400	33412	4<	12.9	9.00	0.004
	MAXIMUM	24	27.7	20.00	0.0100
	ARITH MEAN	14	13.3	8.52	0.007
	GEOM MEAN		11.1	7.13	
	MINIMUM	4	3.5	2.60	0.003
	STD DEV (GEOM *)		8.0	5.44	
	# SAMP IN STATISTICS	2	12	12	7
	% SAMP (EXCLUDED)	77			41

## 1983 WATER QUALITY DATA REGION 1

93

B.O.W./ SITE: BIG SWAMP DRAIN  
 SAMPLE POINT: AT COUNTY ROAD NO.32 SOUTH OF DORCHESTER  
 STATION TYPE: RIVER

STATION ID: 04-0013-052-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 33.24 LONG: 081 03 18.67 U T M: 17 0495500.0 4757925.0 4 REGION: 01 DISTANCE: 224.819

*=INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
						BOD					FECAL	FECAL
						5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
						TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	MF	MF
						MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
						AS CAC03	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	DATE	DEPT	PROJECT	TOTAL	TOT. DEM.	UNF. REAC	CONDUCT.	COPPER	DISOLVED	COLIFORM	FECAL
DATE	TIME	NUMBER	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	25C	MG/L	OXYGEN	MF	MF
YYMMDD	LMT		M	CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
830222	1530	30008	0.30	0101	196.0	0.95	40.000	530.0	0.0100	12.2	20	20
830421	1510	30017	0.30	0101	188.0	0.93	37.000	550.0	0.0100	9.4	4<	12
830510	1430	30039	0.30	0101	196.0	0.78	36.000	510.0	0.0100	11.9	8	12
830614	1445	30067	0.30	0101	215.0	1.38	38.000	570.0		9.8	508	132
830712	1350	30071	0.30	0101	216.0	1.02	38.000	575.0	0.0100<	8.3	210	60
830809	1415	30075	0.30	0101	219.0	0.67	50.000	625.0	0.0100<	8.4		
830929	1505	30079	0.30	0101	215.0	1.52	46.000	600.0	0.002	9.4		
831011	1420	30083	0.30	0101	230.0	1.41	49.000	620.0	0.002	8.8		
831115	1440	30087	0.30	0101	215.0	0.63	49.500	590.0	0.002	11.8		
831215	1420	30091	0.30	0101	167.0	1.04	40.000	490.0	0.002	12.1	170	380
		MAXIMUM	0.30		230.0	1.52	50.000	625.0	0.0100	12.2	508	380
		ARITH MEAN	0.30		205.7	1.03	42.350	566.0	0.005	10.2	183	103
		GEOM MEAN			204.9	0.99	42.022	564.3		10.1		45
		MINIMUM	0.30		167.0	0.63	36.000	490.0	0.002	8.3	8	12
		STD DEV (GEOM *)			18.7	0.31	5.628	45.6		1.6		4*
		# SAMP IN STATISTICS	10		10	10	10	10	7	10	5	6
		% SAMP (EXCLUDED)						22			16	
*=INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
					NH3-N			K'DAHL N				
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04	PHOSPHOR
					FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		FIL. REAC	UNF. TOT.
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE	DATE	DATE	STREAM	WATER	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		FIL. REAC	UNF. TOT.
DATE	TIME	NUMBER	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
YYMMDD	LMT			DEG.C	AS N	AS N	AS N	AS N	AS PB		AS P	AS P
830222	1530	30008	6	3.5	0.015	0.006	0.690	0.410	0.030<	8.00	0.001	0.041
830421	1510	30017	6	11.4	0.010	0.004	0.650	0.370	0.030<	8.25	0.001	0.018
830510	1430	30039	6	11.5	0.005	0.006	0.580	0.470	0.030<	8.14	0.001	0.022
830614	1445	30067	6	21.5	0.030	0.022	0.820	0.490		8.21	0.001	0.029
830712	1350	30071	6	21.5	0.040	0.031	1.100	0.390	0.030<	8.26	0.020	0.044
830809	1415	30075	6	19.8	0.015	0.013	0.530	0.560	0.030<	8.05	0.008	0.030
830929	1505	30079	6	15.8	0.020	0.008	0.610	0.350	0.003<	8.06	0.006	0.015
831011	1420	30083	6	11.8	0.010	0.009	0.670	0.380	0.003<	8.04	0.003	0.013
831115	1440	30087	6	2.8	0.020	0.006	0.420	0.440	0.003<	7.97	0.006	0.019
831215	1420	30091	6	2.0	0.020	0.006	1.230	0.470	0.003<	7.72	0.013	0.019

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

94

B.O.W./ SITE: BIG SWAMP DRAIN  
 SAMPLE POINT: AT COUNTY ROAD NO.32 SOUTH OF DORCHESTER  
 STATION TYPE: RIVER

STATION ID: 04-0013-052-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 33.24 LONG: 081 03 18.67 U T M: 17 0495500.0 4757925.0 4 REGION: 01 DISTANCE: 224.819

*=INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PP04FR PO4	PPUT PHOSPHOR
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
				MAXIMUM	21.5	0.040	0.031	1.230	0.560	8.26	0.020	0.044
				ARITH MEAN	12.2	0.018	0.011	0.730	0.433	8.07	0.006	0.025
				GEOM MEAN	9.2	0.016	0.009	0.695	0.429	8.07	0.003	0.023
				MINIMUM	2.0	0.005	0.004	0.420	0.350	7.72	0.001	0.013
				STD DEV (GEOM %)	7.6	0.010	0.009	0.254	0.065	0.16	0.006	0.011
				# SAMP IN STATISTICS	10	10	10	10	10	10	10	10
				% SAMP (EXCLUDED)								

*=INTERIM		TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL MF	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	CNT /100ML	MG/L	CNT /100ML	CNT /100ML	FTU	MG/L AS ZN
830222	1530	30008	4<	9.2	140	800	2.00	0.0100<
830421	1510	30017	4<	5.8	270C	2900	2.20	0.0200
830510	1430	30039	4<	3.0	2600	4800	1.80	0.0100<
830614	1445	30067	4<	5.4	1200	13600	3.30	
830712	1350	30071	4<	3.7	390C	11000	3.60	0.0100<
830809	1415	30075		6.3			4.80	0.0100<
830929	1505	30079		3.1			1.46	0.002
831011	1420	30083		1.4			1.60	0.003
831115	1440	30087		2.7			2.20	0.009
831215	1420	30091	4	3.6	590C	3000	2.20	0.003
			MAXIMUM	4	9.2	2600	4.80	0.0200
			ARITH MEAN	4	4.4	865	2.52	0.007
			GEOM MEAN		3.9	548	2.35	
			MINIMUM	4	1.4	140	1.46	0.002
			STD DEV (GEOM %)		2.3	3*	1.06	
			# SAMP IN STATISTICS	1	10	6	10	5
			% SAMP (EXCLUDED)	83				44

## 1983 WATER QUALITY DATA REGION 1

95

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT HIGHWAY 59 SOUTH OF TAVISTOCK  
 STATION TYPE: RIVER

STATION ID: 04-0013-055-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 18 21.85 LONG: 080 50 55.15 U T M: 17 0512275.0 4794600.0 4 REGION: 01 DISTANCE: 298.847

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	DO	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISSOLVED OXYGEN MG/L AS O	CMF FECAL COLIFORM MF CNT /100ML	FSMF FECAL STREPCUS MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C
830201	1225	33009	0.30	0101	15.000	565.0		592	368	6	1.0
830221	1225	33035	0.30	0101	10.000	432.0	11.0	1240	1200	6	1.0
830321	1225	33061	0.30	0101	14.000	560.0	10.0	1010	320	6	1.0
830418	1300	33089	0.30	0101	12.000	520.0	10.0	50AID	40AID	6	4.0
830516	1250	33117	0.30	0101	13.500	530.0	12.0	60	20	6	9.0
830620	1250	33145	0.30	0101	13.500	535.0	9.0	332	156	6	23.0
830719	1250	33173	0.30	0101	11.000	498.0	8.0	1220	520	6	29.0
830816	1250	33201	0.30	0101	13.500	580.0	10.0	470	180	6	21.0
830920	1250	33229	0.30	0101	22.500	575.0	7.0			6	22.0
831017	1250	33357	0.30	0101	17.000	640.0	10.0			6	11.0
831122	1225	33383	0.30	0101	15.000	580.0	10.0			6	5.0
831220	1225	33409	0.30	0101	16.500	630.0	9.0	100	430	4	1.0
MAXIMUM		0.30			22.500	640.0	12.0	1240	1200		29.0
ARITH MEAN		0.30			14.458	553.7	9.6	564	359		10.7
GEOM MEAN					14.152	551.0	9.5	327	207		5.4
MINIMUM		0.30			10.000	432.0	7.0	50	20		1.0
STD DEV (GEOM *)					3.258	56.6	1.4	4*	4*		10.3
# SAMP IN STATISTICS		12			12	12	11	9	9		12
% SAMP (EXCLUDED)											

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP
SAMPLE DATE YYMMDD	HOUR LMT	N02-N FIL.REAC MG/L AS N	N03-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	HF CNT /100ML	RESIDUE PARTIC. MG/L
830201	1225	33009	0.038	2.660	1.470	7.89	0.001	0.171	4
830221	1225	33035	0.016	2.380	1.060	7.87	0.101	0.198	16
830321	1225	33061	0.007	3.140	0.630	8.03	0.031	0.056	4
830418	1300	33089	0.010	3.400	0.630	8.01	0.001	0.064	4<
830516	1250	33117	0.023	2.200	0.630	8.11	0.001	0.046	4<
830620	1250	33145	0.119	1.170	0.400	8.10	0.001	0.060	24
830719	1250	33173	0.011	0.020	1.760	8.02	0.029	0.175	4<
830816	1250	33201	0.020	1.900	0.730	7.85	0.054	0.068	4
830920	1250	33229	0.102	1.470	1.670	7.96	0.057	0.107	7.6
831017	1250	33357	0.015	2.330	0.640	8.04	0.057	0.072	4.0
831122	1225	33383	0.027	3.100	0.730	8.15	0.042	0.098	24.2
831220	1225	33409	0.014	4.090	0.600	7.73	0.001	0.056	4<

(CONT'D)



## 96

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE ERIE  
TERM STREAM: THAMES RIVER

STORET CODE: 02  
003  
2870

**DISTANCE: 298.847**

[illegible]

## 1983 WATER QUALITY DATA REGION 1

97

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO 15 NEAR KENT BRIDGE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GE003

STATION ID: 04-0013-058-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 30 49.09 LONG: 082 04 20.70 U T M: 17 0411900.0 4707150.0 4 REGION: 01 DISTANCE: 49.084

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FEUT
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	IRON
SAMPLE	DATE	SAMPLE	PROJECT	TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.
YYMMDD	HMT	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MG/L
		M	CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	CNT	AS FE
										/100ML	
830124	1728	35010	0101	251.0	0.34	33.500	690.0	0.0100	12.0	40AID	0.6700
830228	1422	35026	0101	219.0	0.98	23.500	560.0	0.0100	13.5	36	1.6300
830328	1514	35043	0101	223.0	0.93	50.500	670.0	0.0100	11.5	40AID	1.2600
830425	1537	35060	0101	229.0	1.67	26.500	600.0		10.5	10<	
830524	1600	35077	0101	236.0	2.04	21.000	540.0	0.0100	8.5	172	
830627	1444	35093	0101	207.0	2.28	35.000	570.0	0.0100<	9.0	30AID	1.7600
830725	1448	35111	0101	185.0		44.000	565.0	0.0100<	10.0	264	3.2800
830822	1437	35127	0101	237.0	2.86	29.000	580.0	0.0100	9.5	140	4.7000
830926	1545	35144	0101	190.0	1.42	29.000	530.0	0.0070	10.5		
831024	1510	35161	0101	230.0	1.14	35.000	615.0	0.005	10.5		
831128	1535	35178	0101	261.0	1.70	32.500	675.0	0.010			
		MAXIMUM	0.30	261.0	2.86	50.500	690.0	0.010	13.5	264	4.7000
		ARITH MEAN	0.30	224.4	1.54	32.682	599.5	0.009	10.5	103	2.2167
		GEOM MEAN		223.2	1.34	31.710	597.2		10.5		1.8282
		MINIMUM	0.30	185.0	0.34	21.000	530.0	0.005	8.5	30	0.6700
		STD DEV (GEOM *)		23.4	0.74	8.621	56.1		1.5		1.4938
		# SAMP IN STATISTICS	11	11	10	11	11	8	10	7	6
		% SAMP (EXCLUDED)						20		12	

*INTERIM TEST-NAME:		FMSH	FMFLOW	FMSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH
		FECAL				NH3-N			K'DAHL N		
SAMPLE	DATE	STREPCUS	STREAM		WATER	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	LEAD	
YYMMDD	HMT	MF	FLOW	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	PH
		CNT	M3	COND.	DEG.C	AS N	AS N	AS N	AS N	AS PB	
		/100ML	/S								
830124	1728	35010	4700	34.500	4	1.0	0.085	0.037	6.010	0.630	7.98
830228	1422	35026	40AID	73.000	6	3.0	0.080	0.031	5.900	1.050	8.13
830328	1514	35043	30AID	48.000	6	4.0	0.030	0.045	4.500	0.700	8.21
830425	1537	35060	20AID	47.700	6	11.0	0.025	0.020	4.600	0.800	8.34
830524	1600	35077	120	108.000	6	17.0	0.045	0.052	5.300	1.420	8.21
830627	1444	35093	50AID	14.600	6 9	27.0	0.055	0.120	3.100	0.840	8.19
830725	1448	35111	52	10.100	6 9	27.0	0.025	0.014	2.440	0.980	8.32
830822	1437	35127	116	24.600	6 9	26.0	0.065	0.034	3.000	0.230	8.20
830926	1545	35144		53.000	6	16.0	0.050	0.025	2.030	0.820	8.17
831024	1510	35161		32.600	6	11.0	0.015	0.018	3.200	0.760	8.25
831128	1535	35178		60.700	6 9	4.5	0.040	0.035	5.600	0.840	8.21

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

98

B.O.W./ SITE: THAMES RIVER

SAMPLE POINT: AT COUNTY ROAD NO 15 NEAR KENT BRIDGE

STATION TYPE: RIVER FLOW GAUGE FED 02GE003

STATION ID: 04-0013-058-02

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE ERIE

TERM STREAM: THAMES RIVER

STORET CODE: 02

003

2870

LAT: 42 30 49.09

LONG: 082 04 20.70

U T M: 17 0411900.0 4707150.0 4

REGION: 01

DISTANCE: 49.084

*INTERIM TEST-NAME:		FSMF	FNFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH
		FECAL				NH3-N	N02-N	N03-N	K'DAHL N		
		STREPCUS	STREAM			TOTAL	FIL.REAC	FIL.REAC	UNF.REAC	LEAD	
		MF	FLOW		WATER	MG/L	MG/L	MG/L	MG/L	UNF.TOT.	
SAMPLE		CNT	M3	STREAM	TEMP	AS N	AS N	AS N	AS N	MG/L	PH
DATE	HR			COND.	DEG.C					AS PB	
YYMMDD	LMT	NUMBER	/100ML	/S							
MAXIMUM		4700	108.000		27.0	0.085	0.120	6.010	1.420	0.003	8.34
ARITH MEAN		641	46.073		13.4	0.047	0.039	4.153	0.825	0.003	8.20
GEOM MEAN		89	37.976		9.1	0.041	0.033	3.904	0.764		8.20
MINIMUM		20	10.100		1.0	0.015	0.014	2.030	0.230	0.003	7.98
STD DEV (GEOM *)		6*	28.088		9.9	0.023	0.029	1.450	0.290		0.10
# SAMP IN STATISTICS		8	11		11	11	11	11	11	2	11
% SAMP (EXCLUDED)										80	

*INTERIM TEST-NAME:		PP04FR	PPUT	PSAMF	RSP	TCMF	TCMFBK	TURB	ZNUT	
		P04	PHOSPHOR	PSEUDOMN		COLIFORM	COLIFORM		ZINC	
		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE	TOTAL	TOTAL MF		UNF.TOT.	
		MG/L	MG/L	HF	PARTIC.	MF	BCKGRD	TURB'ITY	MG/L	
		AS P	AS P	CNT	MG/L	CNT	CNT	FTU	AS ZN	
SAMPLE				/100ML		/100ML	/100ML			
DATE	HR	SAMPLE								
YYMMDD	LMT	NUMBER								
830124	1728	35010	0.063	0.085	4<	11.7	1000	3400	17.00	0.0200
830228	1422	35026	0.057	0.128	4	45.7	170	400	44.00	0.0100<
830328	1514	35043	0.012	0.059	4<	31.2	500AID	8400	30.00	0.0100<
830425	1537	35060	0.003	0.063	4<	29.4	100	660	15.90	
830524	1600	35077	0.041	0.232	4<	116.5	2500C	79000	125.00	0.0200
830627	1444	35093	0.040	0.124	4<	68.3	200AID	290000	74.00	0.0100<
830725	1448	35111	0.018	0.138	20	77.6	1100	8700	113.00	0.0100
830822	1437	35127	0.039	0.053	4<	124.9	2400C	34000	153.00	0.0200
830926	1545	35144	0.086	0.109		179.2			159.00	0.013
831024	1510	35161	0.066	1.49		47.9			52.00	0.009
831128	1535	35178	0.037	0.106		40.9			34.00	0.006
MAXIMUM		0.086	1.49	20	179.2	2500	290000	159.00	0.0200	
ARITH MEAN		0.042	0.24	12	70.3	996	53070	74.26	0.014	
GEOM MEAN		0.032	0.13		54.8	570	9195	55.71		
MINIMUM		0.003	0.053	4	11.7	100	400	15.90	0.006	
STD DEV (GEOM *)		0.025	0.42		50.6	3*	10*	53.97		
# SAMP IN STATISTICS		11	11	2	11	8	8	11	7	
% SAMP (EXCLUDED)				75					30	

## 99

STORET CODE: 02  
003  
2870

* = INTERIM		TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL MF	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB	ZNUT
SAMPLE DATE	HOUR	SAMPLE NUMBER	MF CNT /100ML	RESIDUE PARTIC. MG/L	MF CNT /100ML	CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830126	1440	30004	4<	1.0	210	9000	2.60	0.0200
		MAXIMUM		1.0	210	9000	2.60	0.0200
		ARITH MEAN		1.0	210	9000	2.60	0.0200
		GEOM MEAN						
		MINIMUM		1.0	210	9000	2.60	0.0200
		STD DEV (GEOM *)						
#	SAMP	IN STATISTICS		1	1	1	1	1
	% SAMP	(EXCLUDED)						

## 100

STATION ID: 04-6013-060-02

STRET CODE: 02  
003  
2870

**DISTANCE: 224.900**

* = INTERIM		TEST-NAME:	PP04FR P04	PPUT PHOSPHOR	RSP
SAMPLE			FIL.REAC	UNF.TOT.	RESIDUE
DATE	HOURL	SAMPLE	MG/L	MG/L	PARTIC.
YYMMDD	LMT	NUMBER	AS P	AS P	MG/L
830126	1450	30003	0.004	0.015	2.0
MAXIMUM			0.004	0.015	2.0
ARITH MEAN			0.004	0.015	2.0
GEOM MEAN					
MINIMUM			0.004	0.015	2.0
STD DEV (GEOM *)					
# SAMP IN STATISTICS			1	1	1
% SAMP (EXCLUDED)					

## 1983 WATER QUALITY DATA REGION 1

101

B.O.W./ SITE: TURKEY CREEK  
 SAMPLE POINT: AT COUNTY RD 19 SOUTH OF SOUTHWOLD  
 STATION TYPE: RIVER

STATION ID: 04-0013-061-02

MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE:

003  
 2870

LAT: 42 48 25.78 LONG: 081 21 47.65

U T M: 17 0470300.0 4739250.0 4

REGION: 01

DISTANCE: 163.344

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNITFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N
830126	0800	35015	0.30	0101	49.000	745.0	160	26000	6	1.0	0.145
830302	1010	35032	0.30	0101	30.000	600.0	390	100<	6	2.0	0.030
830330	0930	35049	0.30	0101	43.000	660.0	40AID	100<	6	6.0	0.050
830427	0840	35066	0.30	0101	29.000	650.0	410	40AID	6	14.0	0.075
830525	1000	35083	0.30	0101	26.500	590.0	360	240	6	12.0	0.180
830628	1440	35099	0.30	0101	56.000	760.0	43000>	14800	6	18.0	0.860
830823	1130	35133	0.30	0101	41.000	725.0	6000AID	3100	6	18.0	0.340
830928	0930	35150	0.30	0101	46.500	740.0			6	13.0	0.185
831025	1130	35167	0.30	0101	44.500	710.0			6	10.5	0.065
831129	1300	35184	0.30	0101	28.000	430.0			6	4.0	0.105
MAXIMUM			0.30		56.000	760.0	6000	26000		18.0	0.860
ARITH MEAN			0.30		39.350	661.0	1227	8836		9.8	0.203
GEOM MEAN					38.110	652.9				7.2	0.127
MINIMUM			0.30		26.500	430.0	40	40		1.0	0.030
STD DEV (GEOM %)					10.288	101.0				6.3	0.248
# SAMP IN STATISTICS			10		10	10	6	5		10	10
% SAMP (EXCLUDED)							14	28			
*=INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP			
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	NO3-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L		
830126	0800	35015	2.200	1.060	7.76	0.044	0.128	8	46.4		
830302	1010	35032	3.740	0.620	7.43	0.013	0.034	4	8.4		
830330	0930	35049	4.080	0.680	7.89	0.012	0.034	4<	5.9		
830427	0840	35066	1.760	0.880	7.99	0.021	0.090	52	42.4		
830525	1000	35083	3.600	1.410	7.88	0.099	0.147	72	18.2		
830628	1440	35099	3.600	1.800	7.70	0.148	0.190	600>	17.1		
830823	1130	35133	1.560	1.340	7.69	0.063	0.138	16	27.1		
830928	0930	35150	1.330	0.730	7.80	0.046	0.095		34.3		
831025	1130	35167	5.100	0.780	7.75	0.026	0.064		9.2		
831129	1300	35184	4.800	2.050	7.60	0.240	0.535		54.3		

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

102

B.O.W./ SITE: TURKEY CREEK  
 SAMPLE POINT: AT COUNTY RD 19 SOUTH OF SOUTHWOLD  
 STATION TYPE: RIVER

STATION ID: 04-0013-061-02

MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE:  
 003  
 2870

LAT: 42 48 25.78 LONG: 081 21 47.65 U T M: 17 0470300.0 4739250.0 4 REGION: 01 DISTANCE: 163.344

*=INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		N03-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN	
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	
SAMPLE		MG/L	MG/L		MG/L	MG/L	MF	RESIDUE
DATE	HR	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.
YYMMDD	LMT	NUMBER					/100ML	MG/L
MAXIMUM		5.100	2.050	7.99	0.240	0.535	72	54.3
ARITH MEAN		3.177	1.135	7.75	0.071	0.145	30	26.3
GEOM MEAN		2.877	1.046	7.75	0.046	0.105		20.6
MINIMUM		1.330	0.620	7.43	0.012	0.034	4	5.9
STD DEV (GEOM *)		1.367	0.498	0.16	0.073	0.146		17.3
# SAMP IN STATISTICS		10	10	10	10	10	5	10
% SAMP (EXCLUDED)							28	

## 1983 WATER QUALITY DATA REGION 1

103

B.O.W./ SITE: AVON RIVER  
 SAMPLE POINT: PERTH CO RD14 1.5 KILO N OF SHAKESPEARE  
 STATION TYPE: RIVER

STATION ID: 04-0013-062-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 32 31.08		LONG: 082 03 25.45		U T M: 17 0413200.0 4710280.0 4		REGION: 01		DISTANCE: 288.330					
*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	CLIDUR	DO	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NNO2FR		
SAMPLE DATE	YMMDD	TIME	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF. REAC MG/L AS CL-	DISOLVED OXYGEN MG/L AS O	FECAL COLIFORM MF CNT /100ML	FECAL STREPCUS MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	NNHTFR NH3-N TOTAL MG/L AS N	NNO2FR NO2-N FIL. REAC MG/L AS N
830418	1235		33088	0.30	0101	11.000	12.0	30AID	10<	6	5.0	0.010	0.012
830516	1225		33116	0.30	0101	11.500	12.0	96	24	6	9.0	0.025	0.031
830602	1100		34955	0.30	0101	11.000		72	124	6		0.020	0.026
830609	1300		34958	0.30	0101	11.000		120	110	6	17.0	0.060	0.043
830616	1410		34961	0.30	0101	12.500		520	36	9		0.015	0.110
830620	1225		33144	0.30	0101	12.500	12.0	560	80	8	24.0	0.050	
830622	1030		34964	0.30	0101	13.000		6100	88	5 8 9		0.040	0.147
830707	1100		34967	0.30	0101	15.000		990	260	8 9	24.0	0.075	0.081
830714	1115		34970	0.30	0101	13.500		1500>	410			0.005<	0.014
830719	1225		33172	0.30	0101	13.000	8.0	990	424	7	25.0	0.095	0.036
830721	1350		34973	0.30	0101	12.500		450	620	7	24.0	0.230	0.046
830728	1355		34976	0.30	0101			1500	480	7 9			
830804	1320		34979	0.30	0101	16.500		1500>	970	7	21.0	0.080	0.200
830811	1350		34982	0.30	0101	29.000		4000	12800	3 6 8	17.0	0.045	0.187
830816	1225		33200	0.30	0101	12.500	9.0	370	210	6	20.0	0.095	0.151
830818	1215		34985	0.30	0101	5.500				5 7	21.0	0.060	0.175
830825	1321		34988	0.30	0101	9.000		620	270	7 9	21.5	0.015	0.084
830901	1546		34991	0.30	0101	16.500		1700	1500	7	21.0	0.020	0.083
830908	1417		34994	0.30	0101	14.500		790	2800	7	21.0	0.035	0.051
830915	1045		34997	0.30	0101	11.500		1000	210	7 5	14.0	0.110	0.011
830920	1225		33228	0.30	0101	15.500	6.0			8	20.0	0.045	0.044
830921	1222		35000	0.30	0101	16.000		36000	84000>	3	15.0	0.105	0.080
831013	1100		35003	0.30	0101	18.500		8600	39000>	6 8		0.960	0.189
831017	1225		33356	0.30	0101	14.500	9.0			8	10.5	0.055	0.081
831020	1348		35006	0.30	0101	15.000		20AID	100	6	9.0	0.015	0.049
831025	1226		35009	0.30	0101	15.500		270	330	6	8.0	0.040	0.039
831103	1347		35012	0.30		16.500		1110	1470			0.035	0.051
MAXIMUM		0.30				29.000	12.0	36000	12800		25.0	0.960	0.200
ARITH MEAN		0.30				13.962	9.7	2996	1110		17.3	0.093	0.081
GEOM MEAN						13.427	9.4				16.0		0.060
MINIMUM		0.30				5.500	6.0	20	24		5.0	0.010	0.011
STD DEV (GEOM *)						4.113	2.4				6.2		0.060
# SAMP IN STATISTICS		27				26	7	22	21		20	25	25
% SAMP (EXCLUDED)								8	12			3	

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

104

B.O.W./ SITE: AVON RIVER  
 SAMPLE POINT: PERTH CO RD14 1.5 KILO N OF SHAKESPEARE  
 STATION TYPE: RIVER

STATION ID: 04-0013-062-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 32 31.08 LONG: 082 03 25.45 U T M: 17 0413200.0 4710280.0 4 REGION: 01 DISTANCE: 288.330

*INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB	
		NQ3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN			
		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE	TURB'ITY	
DATE	HOUR	MG/L	MG/L		MG/L	MG/L	HF	PARTIC.	FTU	
YYMMDD	LMT	AS N	AS N	PH	AS P	AS P	CNT	MG/L		
	SAMPLE						/100ML			
	NUMBER									
830418	1235	33088	3.800	0.630	8.40	0.001	0.041	4<	11.9	10.50
830516	1225	33116	2.900	0.760	8.16	0.001	0.036	4<	5.4	5.10
830602	1100	34955	3.970	0.730	8.11	0.005	0.053	4<	6.5	4.80
830609	1300	34958	3.700	0.890	8.41	0.005	0.039	4<	7.0	3.70
830616	1410	34961	1.790	0.950	8.57	0.005	0.068	4<	8.6	5.70
830620	1225	33144	1.420	0.590	8.41	0.001	0.060	4<	9.7	7.20
830622	1030	34964	0.980	1.100	8.25	0.008	0.078	4<	9.0	11.80
830707	1100	34967	2.700	1.240	8.11	0.002	0.115	4<	81.4	18.10
830714	1115	34970	0.180	1.730	8.73	0.021	0.123	4<	35.1	24.00
830719	1225	33172	0.500	1.260	7.97	0.025	0.107	4<	24.7	29.00
830721	1350	34973	0.490	0.790	7.84	0.006	0.174	4<	31.1	26.00
830728	1355	34976						4>		
830804	1320	34979	3.000	1.090	7.67	0.030	0.095	48	22.2	24.00
830811	1350	34982	0.090	1.100	7.71	0.072	0.205	124	61.9	50.00
830816	1225	33200	3.000	0.840	7.87	0.029	0.068	4	14.5	15.70
830818	1215	34985	1.900	1.420	7.73	0.020	0.254		155.0	98.00
830825	1321	34988	1.010	0.700	7.95	0.012	0.052	4<	10.1	12.90
830901	1546	34991	2.070	1.200	7.88	0.051	0.210	4<	85.2	83.00
830908	1417	34994	1.260	0.860	8.00	0.022	0.066	4<	7.1	13.50
830915	1045	34997	1.730	1.460	7.86	0.121	0.174	4<	25.6	21.00
830920	1225	33228	2.000	1.020	7.88	0.023	0.069		13.1	10.70
830921	1222	35000	3.100	1.160	7.52	0.169	0.270		43.5	72.00
831013	1100	35003	3.660	1.000	7.58	0.079	0.178	60	12.9	12.50
831017	1225	33356	3.620	0.880	7.86	0.022	0.054		10.7	11.70
831020	1348	35006	3.500	0.800	7.89	0.012	0.048	4<	10.8	10.70
831025	1226	35009	4.000	1.460	7.69	0.015	0.064	4<	10.6	10.70
831103	1347	35012	3.700	0.700	7.60	0.048	0.064	104	17.4	22.0
		MAXIMUM	4.000	1.730	8.73	0.169	0.270	124	155.0	98.00
		ARITH MEAN	2.310	1.014	7.99	0.031	0.106	68	28.1	23.6
		GEOM MEAN	1.725	0.976	7.98	0.014	0.088		17.9	16.1
		MINIMUM	0.090	0.590	7.52	0.001	0.036	4	5.4	3.70
		STD DEV (GEOM *)	1.282	0.291	0.32	0.040	0.070		34.0	24.7
		# SAMP IN STATISTICS	26	26	26	26	26	5	26	26
		% SAMP (EXCLUDED)						78		

## 1983 WATER QUALITY DATA REGION 1

105

B.O.W./ SITE: AVON RIVER  
 SAMPLE POINT: N EASTHOPE TWP.RD.15,1.5 KILO N.OF HWY7  
 STATION TYPE: RIVER

STATION ID: 04-0013-063-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 32 33.03 LONG: 082 01 55.61 U T M: 17 0415250.0 4710315.0 4 REGION: 01 DISTANCE: 290.090

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	CLIDUR	DO	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR
						FECAL	FECAL			NH3-N	
						COLIFORM	STREPCUS			TOTAL	
SAMPLE	DATE HOUR	SAMPLE	SAMPLE	PROJECT	CHLORIDE	DISOLVED			WATER	FIL.REAC	FIL.REAC
DATE	YYMMDD LMT	NUMBER	DEPTH	SUB-PROJ	UNF.REAC	OXYGEN	HF	HF	TEMP	MG/L	MG/L
YYMMDD	LMT	NUMBER	M	CODE	MG/L	MG/L	CNT	CNT	DEG.C	AS N	AS N
					AS CL-	AS O	/100ML	/100ML	COND.		
830418	1215	33087	0.30	0101	10.000	13.0	2900	500	6	5.0	0.515
830516	1200	33115	0.30	0101	7.500	8.0	60AID	30AID	6	8.0	0.020
830602	1200	34953	0.30	0101	13.500		2700	1700	8		0.200
830609	1430	34956	0.30	0101	15.000		100	160	8		0.120
830616	1500	34959	0.30	0101	16.000		600>	120	7		0.610
830620	1200	33143	0.30	0101	7.500	15.0	600>	48	6	21.0	0.080
830622	1200	34962	0.30	0101	17.000		260	250	6		0.605
830707	1330	34965	0.30	0101	17.500		1500	530	6	25.0	0.070
830714	1400	34968	0.30	0101	16.500		1480	460			0.055
830719	1200	33171	0.30	0101	7.000	11.0	1500>	396	6	25.0	0.100
830721	1500	34971	0.30	0101	15.000		1500>	1500>	6		0.155
830728	1345	34974	0.30	0101			3200	1400	6		
830804	1320	34977	0.30	0101	16.500		1500>	250	7	21.0	0.140
830811	1400	34980	0.30	0101	14.000		4400	12800	3 8 6	17.0	0.075
830816	1200	33199	0.30	0101	9.000	15.0	840	280	6	20.0	0.060
830818	1320	34983	0.30	0101	16.000				5 8	22.0	0.015
830825	1417	34986	0.30	0101	12.000		1100	2000	8	23.5	0.010
830901	1540	34989	0.30	0101	14.500		640	2300	8	21.5	0.016
830908	1510	34992	0.30	0101	16.000		550	1700	8	21.0	0.015
830915	1130	34995	0.30	0101	16.000		310	600AID	8 5	14.0	0.025
830920	1200	33227	0.30	0101	12.500	7.0			6	20.0	0.060
830921	1355	34998	0.30	0101	12.500		620	8500	3	10.0	0.035
831013	1155	35001	0.30	0101	16.500		290	1300	6 8		0.010
831017	1200	33355	0.30	0101	12.500	9.0			6	10.0	0.020
831020	1420	35004	0.30	0101	18.000		170	110	6	11.0	0.015
831025	1311	35007	0.30	0101	17.000		100	460	6	9.0	0.015
831103	1442	35010	0.30	0101	17.500		1120	1440	6	9.0	0.055
MAXIMUM			0.30		18.000	15.0	4400	12800		25.0	0.610
ARITH MEAN			0.30		13.962	11.1	1176	1623		16.5	0.119
GEOM MEAN					13.490	10.7				15.0	0.054
MINIMUM			0.30		7.000	7.0	60	30		5.0	0.010
STD DEV (GEOM *)					3.352	3.3				6.5	0.176
# SAMP IN STATISTICS			27		26	7	19	23		19	26
% SAMP (EXCLUDED)							20	4			

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

106

B.O.W./ SITE: AVON RIVER

SAMPLE POINT: N EASTHOPE TWP.RD.15,1.5 KILO N.OF HWY7

STATION TYPE: RIVER

STATION ID: 04-0013-063-02

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE ERIE

TERM STREAM: THAMES RIVER

STORET CODE: 02

003

2870

LAT: 42 32 33.03 LONG: 082 01 55.61

U T M: 17 0415250.0 4710315.0 4

REGION: 01

DISTANCE: 290.090

*=-INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB	
		NO3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN			
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE		
SAMPLE		MG/L	MG/L		MG/L	MG/L	MG/L	PARTIC.	TURB'ITY	
DATE	HR	AS N	AS N	PH	AS P	AS P	CNT	MG/L	FTU	
YYMMDD	LHT	NUMBER					/100ML			
830418	1215	33087	3.600	1.590	8.15	0.001	0.087	4<	2.9	3.30
830516	1200	33115	2.700	0.680	8.37	0.001	0.023	4	1.0	2.20
830602	1200	34953	12.700	1.400	8.11	0.010	0.073	72	8.2	6.30
830609	1430	34956	11.500	1.310	8.47	0.005	0.068	4<	16.1	4.40
830616	1500	34959	5.900	1.910	8.21	0.052	0.126	4<	13.0	9.70
830620	1200	33143	1.800	1.910	8.23	0.001	0.115	4<	3.3	2.50
830622	1200	34962	3.500	1.130	8.00	0.041	0.076	4<	37.7	40.00
830707	1330	34965	8.700	1.590	8.30	0.006	0.150	56	63.2	18.70
830714	1400	34968	4.050	1.620	8.82	0.012	0.108	144	39.9	24.00
830719	1200	33171	0.090	0.730	7.97	0.125	0.187	4	4.2	4.60
830721	1500	34971	1.800	0.780	8.35	0.008	0.097	40	27.6	21.00
830728	1345	34974						12		
830804	1320	34977	6.400	0.960	7.90	0.035	0.084	584C	21.3	22.00
830811	1400	34980	13.300	2.950	7.35	0.500	0.885	264	254.1	268.00
830816	1200	33199	1.500	0.740	7.97	0.033	0.058	4<	4.8	4.40
830818	1320	34983	6.500	0.980	8.00	0.020	0.056		10.8	15.80
830825	1417	34986	4.200	0.810	8.18	0.027	0.064	4<	15.1	21.00
830901	1540	34989	6.800	1.180	7.79	0.041	0.079	80	12.5	16.00
830908	1510	34992	4.980	0.650	8.11	0.042	0.063	12	14.2	15.40
830915	1130	34995	3.540	0.580	8.00	0.028	0.040	4<	7.3	17.60
830920	1200	33227	1.700	0.900	7.95	0.054	0.072		5.0	3.20
830921	1355	34998	12.800	1.480	7.48	0.111	0.162		20.4	31.00
831013	1155	35001	13.200	1.310	7.80	0.021	0.085	128	8.9	8.80
831017	1200	33355	2.070	0.820	7.93	0.039	0.056		4.6	3.60
831020	1420	35004	12.000	1.020	8.25	0.005	0.018	4	16.8	19.00
831025	1311	35007	13.500	1.740	7.70	0.013	0.071	20	14.7	18.60
831103	1442	35010	13.600	1.610	7.47	0.037	0.085	112	7.9	13.50
MAXIMUM		13.600	2.950	8.82	0.500	0.885	584	254.1	268.00	
ARITH MEAN		6.632	1.245	8.03	0.049	0.115	102	24.4	23.64	
GEOM MEAN		4.594	1.148	8.03	0.019	0.082		11.8	11.60	
MINIMUM		0.090	0.580	7.35	0.001	0.018	4	1.0	2.20	
STD DEV (GEOM *)		4.630	0.537	0.32	0.097	0.162		48.9	50.76	
# SAHP IN STATISTICS		26	26	26	26	26	15	26	26	
% SAHP (EXCLUDED)							34			

## 1983 WATER QUALITY DATA REGION 1

107

B.O.W./ SITE: TROUT CREEK  
 SAMPLE POINT: AT PERTH COUNTY ROAD NO 28 ST.MARY'S  
 STATION TYPE: RIVER FLOW GAUGE FED 02GD009

STATION ID: 04-0013-064-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 16 17.26 LONG: 081 05 46.02

U T M: 17 0492200.0 4790750.0 4

REGION: 01

DISTANCE: 258.936

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR
						FECAL	FECAL				NH3-N
						COLIFORM	STREPCUS				TOTAL
						MF	MF				FIL.REAC
						CNT	CNT				MG/L
						/100ML	/100ML				AS N
SAMPLE	DATE	NUMBER	DEPTH	PROJECT	CHLORIDE	CONDUCT.		STREAM		WATER	
YYMMDD	HOUR		M	SUB-PROJ	UNF.REAC	25C		FLOW		TEMP	
	LMT			CODE	MG/L	UMHO/CM		M3	STREAM	DEG.C	
					AS CL-	AT 25 C		/S	COND.		
830201	1325	33011	0.30	0101	10.500	560.0	24	310	1.500	6	1.00
830221	1325	33037	0.30	0101	10.000	489.0	20	36	3.430	6	2.00
830321	1325	33063	0.30	0101	11.000	460.0	4<	4<	0.370	6	1.00
830418	1350	33091	0.30	0101	12.000	471.0	4<	4<	0.461	6	6.00
830516	1345	33119	0.30	0101	10.000	434.0	12	28	1.020	6	11.00
830620	1345	33147	0.30	0101	10.000	439.0	24	4	1.830	6	19.00
830719	1345	33175	0.30	0101	10.500	438.0	104	40	1.180	5	24.00
830816	1345	33203	0.30	0101	9.500	425.0	312	48	3.170	6	21.00
830920	1345	33231	0.30	0101	11.000	396.0			2.550	6	20.00
831017	1345	33359	0.30	0101	11.500	413.0			1.680	6	12.00
831122	1325	33385	0.30	0101	13.000	500.0			2.570	6	4.50
831220	1325	33411	0.30	0101	11.500	595.0	240	524	5.890	6	1.00
		MAXIMUM	0.30		13.000	595.0	312	524	5.890		24.00
		ARITH MEAN	0.30		10.875	468.3	105	141	2.138		10.20
		GEOM MEAN			10.834	465.1			1.647		5.80
		MINIMUM	0.30		9.500	396.0	12	4	0.370		1.00
		STD DEV (GEOM *)			1.003	59.6			1.537		8.80
		# SAMP IN STATISTICS	12		12	12	7	7	12		12
		% SAMP (EXCLUDED)					22	22			
*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP	TURB		
				K'DAHL N							
				TOTAL							
				UNF.REAC							
				MG/L							
				AS N							
SAMPLE	DATE	NUMBER	FIL.REAC	FIL.REAC	UNF.REAC	FIL.REAC	PHOSPHOR	RESIDUE		TURB'ITY	
YYMMDD	HOUR		MG/L	MG/L	MG/L	MG/L	MG/L	PARTIC.		FTU	
	LMT		AS N	AS N	AS N	AS P	AS P	MG/L			
830201	1325	33011	0.024	3.230	0.720	7.99	0.001	0.067	16.3	16.30	
830221	1325	33037	0.018	3.180	0.870	7.90	0.001	0.093	11.7	8.30	
830321	1325	33063	0.014	26.000	0.900	8.27	0.004	0.077	24.7	20.00	
830418	1350	33091	0.014	2.300	0.650	8.27	0.001	0.037	6.5	7.70	
830516	1345	33119	0.040	2.300	0.970	8.19	0.001	0.065	15.0	18.70	
830620	1345	33147	0.056	1.860	0.540	8.06	0.001	0.104	5.6	5.80	
830719	1345	33175	0.057	0.830	0.900	8.35	0.017	0.024	7.5	7.80	
830816	1345	33203	0.103	1.140	0.780	7.85	0.015	0.094	19.3	18.90	
830920	1345	33231	0.071	0.370	0.940	8.03	0.040	0.094	34.4	29.00	
831017	1345	33359	0.026	0.480	1.100	8.36	0.002	0.098	25.2	33.00	
831122	1325	33385	0.020	1.490	1.010	8.28	0.002	0.066	25.8	18.10	
831220	1325	33411	0.019	3.130	0.760	7.91	0.001	0.087	15.2	19.60	

( C O N T D )



## 1983 WATER QUALITY DATA REGION 1

109

B.O.W./ SITE: SHARON CREEK  
 SAMPLE POINT: AT SHARON RESERVOIR OUTLET  
 STATION TYPE: RIVER

STATION ID: 04-0013-065-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 53 05.75 LONG: 081 24 05.95

U T M: 17 0467200.0 4747900.0 4

REGION: 01

DISTANCE: 172.517

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCHF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N
830126	0818	35016	0.30	0101	36.000	700.0	50AID	370	6	1.0	0.315	0.078
830302	1030	35033	0.30	0101	29.500	560.0	40	400	6	3.0	0.170	0.037
830330	0955	35050	0.30	0101	29.000	510.0	4<	4<	6	4.0	0.102	0.036
830427	0900	35067	0.30	0101	26.000	505.0	4<	12	6	7.0	0.125	0.060
830525	1030	35084	0.30	0101	22.500	395.0	4<	8	6	15.0	0.160	0.085
830628	1515	35100	0.30	0101	25.000	434.0	600>	100	6	24.0	0.055	0.180
830726	1310	35117	0.30	0101	28.500	428.0	100<	100<	5	27.0	0.040	0.074
830823	1200	35134	0.30	0101	25.500	555.0	268	208	6	15.0	2.000	0.082
830928	1000	35151	0.30	0101	17.000	315.0			5	17.0	0.180	0.033
831025	1140	35168	0.30	0101	18.500	348.0			6	12.0	0.445	0.034
831129	1320	35185	0.30	0101	31.500	495.0			6	3.0	0.215	0.035
MAXIMUM			0.30		36.000	700.0	268	400		27.0	2.000	0.180
ARITH MEAN			0.30		26.273	476.8	119	183		11.6	0.346	0.067
GEOM MEAN					25.709	465.6				7.9	0.184	0.058
MINIMUM			0.30		17.000	315.0	40	8		1.0	0.040	0.033
STD DEV (GEOM *)					5.547	109.0				8.8	0.561	0.043
# SAMP IN STATISTICS			11		11	11	3	6		11	11	11
% SAMP (EXCLUDED)							62	25				
*INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAHF PSEUDOMN AERUG.	RSP				
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	NO3-N FIL. REAC MG/L AS N	UNF. REAC MG/L AS N	PH	P04 FIL. REAC MG/L AS P	PHOSPHOR UNF. TOT. MG/L AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L			
830126	0818	35016	7.100	0.840	7.88	0.090	0.110	4<	9.8			
830302	1030	35033	1.010	1.000	7.79	0.110	0.147	4<	16.8			
830330	0955	35050	3.910	1.020	8.46	0.009	0.078	4<	16.7			
830427	0900	35067	4.590	1.090	8.20	0.036	0.112	4<	37.8			
830525	1030	35084	3.270	1.820	8.49	0.002	0.076	4<	7.4			
830628	1515	35100	3.800	1.050	8.35	0.012	0.040	8	15.0			
830726	1310	35117	3.880	0.910	8.47	0.004	0.019	10<	10.1			
830823	1200	35134	0.250	1.800	7.72	0.038	0.075	40	7.6			
830928	1000	35151	0.700	0.570	8.16	0.003	0.032		5.9			
831025	1140	35168	0.480	1.080	7.79	0.012	0.063		7.5			
831129	1320	35185	3.300	1.040	7.84	0.038	0.096		16.5			

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

110

B.O.W./ SITE: SHARON CREEK  
 SAMPLE POINT: AT SHARON RESERVOIR OUTLET  
 STATION TYPE: RIVER

STATION ID: 04-0013-065-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 53 05.75 LONG: 081 24 05.95 U T M: 17 0467200.0 4747900.0 4 REGION: 01 DISTANCE: 172.517

*=INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN	
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	
SAMPLE		MG/L	MG/L		MG/L	MG/L	HF	RESIDUE
DATE	TIME	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.
YYMMDD	LMT	AS N	AS N	PH	AS P	AS P	/100ML	MG/L
		7.100	1.820	8.49	0.110	0.147	40	37.8
		2.935	1.111	8.10	0.032	0.078	24	13.7
		1.969	1.059	8.10	0.016	0.067		11.8
		0.250	0.570	7.72	0.002	0.019	8	5.9
		2.118	0.376	0.31	0.037	0.039		9.0
		11	11	11	11	11	2	11
							75	

# SAMP IN STATISTICS 11 11 11 11 11 11 2 11  
 % SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 1

111

B.O.W./ SITE: TROUT CREEK  
 SAMPLE POINT: AT WEST ZORRA TWP.CONC.ROAD 2-3  
 STATION TYPE: RIVER

STATION ID: 04-0013-066-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 16 14.16 LONG: 080 59 06.77

U T M: 17 0501200.0 4790650.0 4

REGION: 01

DISTANCE: 269.880

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSHF FECAL STREPCUS	FMSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100HL	MF CNT /100HL	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830201	1255	33010	0.30	0101	12.000	605.0	80	240	6	1.0	0.070	0.016
830221	1255	33036	0.30	0101	8.500	400.0	600>	512	6	2.0	0.285	0.024
830321	1255	33062	0.30	0101	13.000	550.0	100	50AID	6	1.0	0.020	0.011
830418	1330	33090	0.30	0101	11.500	550.0	90AID	20AID	6	5.0	0.025	0.011
830516	1315	33118	0.30	0101	11.000	565.0	40	4<	6	9.0	0.005	0.021
830620	1315	33146	0.30	0101	10.500	580.0	76	28	6	20.0	0.015	0.035
830719	1315	33174	0.30	0101	11.000	520.0	568	68	6	25.0	0.030	0.036
830816	1315	33202	0.30	0101	11.000	600.0	810	210	6	20.0	0.010	0.012
830920	1315	33230	0.30	0101	17.000	590.0			6	20.0	0.035	0.017
831017	1315	33358	0.30	0101	15.000	625.0			6	10.0	0.010	0.015
831122	1255	33384	0.30	0101	15.000	580.0			6	4.5	0.150	0.027
831220	1255	33410	0.30	0101	14.000	645.0	20AID	50AID	4	1.0	0.040	0.011
MAXIMUM			0.30		17.000	645.0	810	512		25.0	0.285	0.036
ARITH MEAN			0.30		12.458	567.5	223	147		9.9	0.058	0.020
GEOM MEAN					12.249	563.8				5.5	0.030	0.018
MINIMUM			0.30		8.500	400.0	20	20		1.0	0.005	0.011
STD DEV (GEOM *)					2.398	62.9				9.0	0.082	0.009
# SAMP IN STATISTICS			12		12	12	8	8		12	12	12
% SAMP (EXCLUDED)							11	11				

*INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100HL	RESIDUE PARTIC. MG/L
830201	1255	33010	3.680	0.570	8.09	0.001	0.035	4<	6.2
830221	1255	33036	2.680	1.440	7.85	0.101	0.265	4	36.3
830321	1255	33062	3.040	0.650	8.12	0.019	0.051	4<	11.4
830418	1330	33090	3.900	0.580	8.21	0.001	0.049	4<	9.3
830516	1315	33118	2.800	0.530	8.19	0.001	0.023	4<	1.7
830620	1315	33146	2.600	0.300	8.15	0.001	0.109	4<	3.7
830719	1315	33174	1.720	0.530	8.33	0.010	0.027	4<	8.8
830816	1315	33202	2.300	0.540	8.08	0.023	0.061	4	15.8
830920	1315	33230	2.800	0.550	8.16	0.015	0.035		7.9
831017	1315	33358	2.840	0.590	8.14	0.032	0.045		6.9
831122	1255	33384	3.200	0.750	8.13	0.042	0.100		24.7
831220	1255	33410	4.090	0.470	7.81	0.001	0.045	4<	15.6

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

112

B.O.W./ SITE: TROUT CREEK  
 SAMPLE POINT: AT WEST ZORRA TWP.CONC.ROAD 2-3  
 STATION TYPE: RIVER

STATION ID: 04-0013-066-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 16 14.16 LONG: 080 59 06.77

U T M: 17 0501200.0 4790650.0 4

REGION: 01

DISTANCE: 269.880

*INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN	
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE
SAMPLE		MG/L	MG/L		MG/L	MG/L	MG/L	PARTIC.
DATE	HOUR	AS N	AS N	PH	AS P	AS P	CNT	MG/L
YYMMDD	LMT	NUMBER					/100ML	
MAXIMUM		4.090	1.440	8.33	0.101	0.265	4	36.3
ARITH MEAN		2.971	0.625	8.10	0.021	0.070	4	12.4
GEOM MEAN		2.898	0.585	8.10	0.007	0.054		9.3
MINIMUM		1.720	0.300	7.81	0.001	0.023	4	1.7
STD DEV (GEOM *)		0.673	0.278	0.14	0.029	0.067		9.8
# SAMP IN STATISTICS		12	12	12	12	12	2	12
% SAMP (EXCLUDED)							77	

## 1983 WATER QUALITY DATA REGION 1

113

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: 2 MILES UPSTREAM FROM ST.MARY'S  
 STATION TYPE: RIVER

STATION ID: 04-0013-067-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 0101

LAT: 43 17 13.69 LONG: 081 10 07.91 U T M: 17 0486300.0 4792500.0 4 REGION: 01 DISTANCE: 258.775

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	
					BOD 5 DAY	CHLORIDE	CONDUCT.	FECAL	FECAL			
				ALK	TOT.DEM.	UNF.REAC	25C	COLIFORM	STREPCUS			
SAMPLE DATE	HR	SAMPLE DEPTH	PROJECT SUB-PROJ	TOTAL MG/L	MG/L	MG/L	UMHO/CM	MF	MF	STREAM	WATER	
YYMMDD	LMT	NUMBER	CODE	AS CAC03	AS O	AS CL-	AT 25 C	CNT	CNT	COND.	TEMP	
								/100ML	/100ML		DEG.C	
830201	1000	33004	0.30	0101			55.000	770.0	412	572	6	0.5
830221	1000	33030	0.30	0101			16.500	493.0	1000	1170	6	1.0
830321	1000	33056	0.30	0101			26.500	630.0	510	40AID	6	1.0
830418	1040	33084	0.30	0101	249.0	0.68	21.500	590.0	500	140	6	3.0
830516	1035	33112	0.30	0101	242.0	1.01	21.000	590.0	210	10<	6	9.5
830620	1035	33140	0.30	0101	204.0	0.90	37.000	600.0	76	8	6	21.0
830719	1035	33168	0.30	0101	131.0	2.33	70.000	720.0	428	136	6	24.0
830816	1035	33196	0.30	0101	264.0	1.15	21.500	610.0	550	360	6	19.0
830920	1035	33224	0.30	0101	204.0	1.84	30.000	555.0			6	20.0
831017	1035	33352	0.30	0101	294.0	0.82	23.500	680.0			6	10.0
831122	1035	33380	0.30	0101	298.0	1.03	21.500	690.0			6	4.5
831220	1035	33406	0.30	0101	303.0	0.60	23.500	715.0	290	570	4	1.0
MAXIMUM		0.30		303.0	2.33	70.000	770.0	1000	1170		24.0	
ARITH MEAN		0.30		243.2	1.15	30.625	636.9	442	374		9.5	
GEOM MEAN				236.4	1.05	27.825	632.3	365			4.7	
MINIMUM		0.30		131.0	0.60	16.500	493.0	76	8		0.5	
STD DEV (GEOM *)				56.2	0.57	16.085	79.4	2*			9.1	
# SAMP IN STATISTICS		12		9	9	12	12	9			12	
% SAMP (EXCLUDED)									11			

*=INTERIM TEST-NAME:		NNH1FR	NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TCMF
		NH3-N			K'DAHL N				PSEUDOMN		COLIFORM
		TOTAL	N02-N	N03-N	TOTAL		PO4	PHOSPHOR	AERUG.		TOTAL
SAMPLE DATE	HR	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE	MF
YYMMDD	LMT	MG/L	MG/L	MG/L	MG/L	PH	MG/L	MG/L	CNT	PARTIC.	CNT
		AS N	AS N	AS N	AS N		AS P	AS P	/100ML	MG/L	/100ML
830201	1000	33004	0.445	0.039	4.900	0.920	8.17	0.052	0.069	4<	1.4
830221	1000	33030	0.295	0.031	4.770	1.300	7.99	0.110	0.202	4<	17.5
830321	1000	33056	0.045	0.029	4.120	0.830	8.29	0.061	0.086	4	2.7
830418	1040	33084	0.045	0.022	5.600	0.680	8.29	0.010	0.032	4<	4.5
830516	1035	33112	0.010	0.045	5.100	0.740	8.29	0.010	0.035	4	2.5
830620	1035	33140	0.020	0.017	1.850	0.710	8.53	0.001	0.032	4<	4.3
830719	1035	33168	0.135	0.046	1.250	1.080	8.24	0.026	0.083	4<	11.9
830816	1035	33196	0.025	0.012	4.000	0.670	8.22	0.029	0.070	8	10.1
830920	1035	33224	0.040	0.029	2.200	0.930	8.25	0.023	0.079		9.8
831017	1035	33352	0.015	0.024	5.780	0.830	8.26	0.030	0.065		14.0
831122	1035	33380	0.030	0.029	8.700	0.710	8.15	0.039	0.060		7.8
831220	1035	33406	0.095	0.032	6.120	0.620	7.99	0.040	0.054	4<	4.0

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

114

B.O.W./ SITE: NORTH THAMES RIVER  
 SAMPLE POINT: 2 MILES UPSTREAM FROM ST.MARY'S  
 STATION TYPE: RIVER

STATION ID: 04-0013-067-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 0101

LAT: 43 17 13.69 LONG: 081 10 07.91

U T M: 17 0486300.0 4792500.0 4

REGION: 01

DISTANCE: 258.775

*=INTERIM TEST-NAME:		NNHFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS P	MG/L AS P	CNT /100ML	MG/L	MG/L /100ML
MAXIMUM		0.445	0.046	8.700	1.300	8.53	0.110	0.202	8	17.5	4900
ARITH MEAN		0.100	0.030	4.532	0.835	8.22	0.036	0.072	5	7.5	1710
GEOM MEAN		0.051	0.028	4.009	0.816	8.22	0.023	0.063		5.9	1212
MINIMUM		0.010	0.012	1.250	0.620	7.99	0.001	0.032	4	1.4	370
STD DEV (GEOM *)		0.135	0.010	2.066	0.198	0.14	0.029	0.045		5.1	2*
# SAMP IN STATISTICS		12	12	12	12	12	12	12	3	12	6
% SAMP (EXCLUDED)									66		

*=INTERIM TEST-NAME:		TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	CNT /100ML
830418	1040	33084	10000
830516	1035	33112	6300
830620	1035	33140	14500
830719	1035	33168	24000>
830816	1035	33196	72000
830920	1035	33224	
831017	1035	33352	
831122	1035	33380	
831220	1035	33406	1700
MAXIMUM		72000	9.40
ARITH MEAN		20900	7.12
GEOM MEAN			6.87
MINIMUM		1700	4.20
STD DEV (GEOM *)			1.89
# SAMP IN STATISTICS		5	9
% SAMP (EXCLUDED)		16	

## 1983 WATER QUALITY DATA REGION 1

115

B.O.W./ SITE: REYNOLD'S CREEK  
 SAMPLE POINT: AT C/A AREA SOUTH OF HIGHWAY 401  
 STATION TYPE: RIVER

STATION ID: 04-0013-068-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 17.85 LONG: 080 57 07.83 U T M: 17 0503900.0 4757450.0 4 REGION: 01 DISTANCE: 237.533

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCHF FECAL COLIFORM	FSHF FECAL STREPCUS	FWSTRC	FNTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830203	1040	33016	0.30	0101	12.000	339.0	4800	13800	6 3	1.0	0.600	0.120
830222	1035	33042	0.30	0101	18.500	590.0	440	1700	6	4.0	0.040	0.076
830322	1035	33068	0.30	0101	19.500	615.0	1460	660	6	0.1	0.150	0.024
830419	1035	33096	0.30	0101	16.000	580.0	240	40AID	6	8.0	0.060	0.021
830518	1035	33124	0.30	0101	16.500	625.0	330	52	6	10.0	0.010	0.046
830622	1035	33152	0.30	0101	18.000	630.0	590	408	6	20.0	0.045	0.074
830720	1035	33180	0.30	0101	20.000	550.0			6	25.0	0.135	0.037
830817	1035	33208	0.30	0101	16.000	640.0	1700	600	6	20.0	0.055	0.097
830921	1035	33336	0.30	0101	18.000	545.0			6	15.0	0.050	0.050
831018	1035	33364	0.30	0101	21.000	700.0			6	10.0	0.025	0.022
831123	1035	33390	0.30	0101	25.500	705.0			6	5.0	0.080	0.037
831221	1035	33416	0.30	0101	22.000	700.0	30AID	150	6	1.0	0.150	0.026
MAXIMUM		0.30			25.500	705.0	4800	13800		25.0	0.600	0.120
ARITH MEAN		0.30			18.583	601.6	1199	2176		9.9	0.117	0.052
GEOM MEAN					18.284	592.2	541	431		5.0	0.069	0.044
MINIMUM		0.30			12.000	339.0	30	40		0.1	0.010	0.021
STD DEV (GEOM *)					3.437	99.3	5*	7*		8.4	0.159	0.032
# SAMP IN STATISTICS		12			12	12	8	8		12	12	12
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L
830203	1040	33016	4.030	2.650	7.46	0.280	0.670	44
830222	1035	33042	7.800	0.970	7.73	0.032	0.077	4
830322	1035	33068	6.300	1.020	8.00	0.008	0.055	8
830419	1035	33096	6.200	1.000	7.86	0.028	0.107	4<
830518	1035	33124	4.400	0.870	8.05	0.004	0.038	4<
830622	1035	33152	2.500	1.120	7.93	0.026	0.118	4<
830720	1035	33180	1.080	0.620	7.86	0.036	0.190	
830817	1035	33208	3.400	1.160	7.79	0.044	0.138	4
830921	1035	33336	2.500	1.380	7.70	0.136	0.292	
831018	1035	33364	2.730	0.920	8.06	0.039	0.088	
831123	1035	33390	7.010	0.950	7.83	0.039	0.090	
831221	1035	33416	6.570	0.910	7.77	0.035	0.065	4<

( CONTD )

## 1983 WATER QUALITY DATA REGION 1

116

B.O.W./ SITE: REYNOLD'S CREEK  
 SAMPLE POINT: AT C/A AREA SOUTH OF HIGHWAY 401  
 STATION TYPE: RIVER

STATION ID: 04-0013-068-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 17.85 LONG: 080 57 07.83

U T M: 17 0503900.0 4757450.0 4

REGION: 01

DISTANCE: 237.533

*=INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN	
		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE
SAMPLE		MG/L	MG/L		MG/L	MG/L	MF	PARTIC.
DATE	HR						CNT	
YYMMDD	LMT	NUMBER	AS N	AS N	AS P	AS P	/100ML	MG/L
MAXIMUM		7.800	2.650	8.06	0.280	0.670	44	229.8
ARITH MEAN		4.543	1.131	7.84	0.059	0.161	15	54.8
GEOM MEAN		3.976	1.060	7.83	0.034	0.115		34.1
MINIMUM		1.080	0.620	7.46	0.004	0.038	4	5.3
STD DEV (GEOM *)		2.171	0.512	0.17	0.077	0.175		61.9
# SAMP IN STATISTICS		12	12	12	12	12	4	12
% SAMP (EXCLUDED)							50	

## 1983 WATER QUALITY DATA REGION 1

117

B.O.W./ SITE: FOLDENS CREEK  
 SAMPLE POINT: AT CONC. RD. NO. 3 WEST OXFORD TWP.  
 STATION TYPE: RIVER

STATION ID: 04-0013-069-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 02 36.72 LONG: 080 49 10.30 U T M: 17 0514700.0 4765450.0 4 REGION: 01 DISTANCE: 250.085

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR
SAMPLE DATE	HR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ	CHLORIDE UNF.REAC	CONDUCT. 25C	FECAL COLIFORM	FECAL STREPCUS	WATER TEMP	NH3-N TOTAL	NH02-N
YYMMDD	LMT		M	CODE	MG/L	UMHO/CM	HF CNT	HF CNT	DEG.C	MG/L	MG/L
					AS CL-	AT 25 C	/100ML	/100ML		AS N	AS N
830203	1200	33019	0.30	0101	10.500	281.0	13300	30000	6 3	1.0	0.073
830222	1200	33045	0.30	0101	23.000	645.0	30AID	50AID	6	0.025	0.032
830322	1200	33071	0.30	0101	22.000	610.0	64	172	6	0.010	0.012
830419	1200	33099	0.30	0101	20.500	615.0	8	4	6	0.025	0.009
830518	1200	33127	0.30	0101	21.000	660.0	76	36	6	0.010	0.015
830622	1200	33155	0.30	0101	22.000	710.0	532	352	6	0.010	0.027
830720	1200	33183	0.30	0101	24.500	685.0	1500	1500	6	0.015	0.014
830817	1200	33211	0.30	0101	21.000	700.0	270	150	6	0.025	0.017
830921	1120	33339	0.30	0101	22.000	565.0			6	0.015	0.008
831018	1120	33367	0.30	0101	26.000	675.0			6	0.010	0.008
831123	1120	33393	0.30	0101	26.500	655.0			6	0.015	0.008
831221	1120	33419	0.30	0101	26.500	720.0	40AID	30AID	6	0.045	0.029
MAXIMUM			0.30		26.500	720.0	13300	352		1.120	0.073
ARITH MEAN			0.30		22.125	626.7	1790	113		0.110	0.021
GEOM MEAN					21.615	611.8				0.023	0.016
MINIMUM			0.30		10.500	281.0	8	4		0.010	0.008
STD DEV (GEOM *)					4.265	117.8				0.318	0.018
# SAMP IN STATISTICS			12		12	12	8	7	12	12	12
% SAMP (EXCLUDED)							11	22			

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
SAMPLE DATE	HR	NH3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN	RESIDUE	TURB'ITY
YYMMDD	LMT	FIL.REAC	UNF.REAC	PH	FIL.REAC	UNF.TOT.	AERUG.	PARTIC.	FTU
		MG/L	MG/L		MG/L	MG/L	HF	MG/L	
		AS N	AS N		AS P	AS P	CNT		
							/100ML		
830203	1200	33019	1.880	3.100	7.38	0.690	0.840	16	46.1
830222	1200	33045	4.420	0.590	7.78	0.029	0.045	4<	3.5
830322	1200	33071	6.300	0.640	8.13	0.019	0.032	4<	3.8
830419	1200	33099	4.300	0.570	7.83	0.011	0.021	4<	3.6
830518	1200	33127	4.100	0.510	8.04	0.010	0.030	4<	3.8
830622	1200	33155	4.800	0.530	7.90	0.014	0.023	4<	3.7
830720	1200	33183	4.000	0.430	7.91	0.041	0.080	12	10.0
830817	1200	33211	3.100	0.600	7.74	0.078	0.127	4<	2.2
830921	1120	33339	1.190	0.910	7.67	0.059	0.076		7.3
831018	1120	33367	3.140	0.530	7.92	0.022	0.027		1.0
831123	1120	33393	3.540	0.700	7.81	0.026	0.044		8.3
831221	1120	33419	5.020	0.570	7.69	0.011	0.022	4<	5.6

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

118

B.O.W./ SITE: FOLDENS CREEK  
 SAMPLE POINT: AT CONC. RD. NO. 3 WEST OXFORD TWP.  
 STATION TYPE: RIVER

STATION ID: 04-0013-069-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 02 36.72 LONG: 080 49 10.30

U T M: 17 0514700.0 4765450.0 4

REGION: 01

DISTANCE: 250.085

*=INTERIM TEST-NAME:		NO3-N	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB
		FIL.REAC	UNF.REAC		PO4 FIL.REAC	PHOSPHOR UNF.TOT.	MF CNT	RESIDUE PARTIC.	TURB'ITY FTU
DATE	HOUR	SAMPLE MG/L	MG/L		MG/L	MG/L		MG/L	
YYMMDD	LMT	NUMBER	AS N	AS N	AS P	AS P	/100ML		
MAXIMUM		6.300	3.100	8.13	0.690	0.840	16	46.1	31.00
ARITH MEAN		3.816	0.807	7.82	0.084	0.114	14	8.2	5.29
GEOM MEAN		3.522	0.675	7.81	0.031	0.052		5.0	3.18
MINIMUM		1.190	0.430	7.38	0.010	0.021	12	1.0	0.57
STD DEV (GEOM *)		1.381	0.732	0.19	0.192	0.231		12.2	8.20
# SAMP IN STATISTICS		12	12	12	12	12	2	12	12
% SAMP (EXCLUDED)							77		

## 1983 WATER QUALITY DATA REGION 1

119

B.O.W./ SITE: REYNOLDS CREEK  
 SAMPLE POINT: AT HIGHWAY NO.19  
 STATION TYPE: RIVER

STATION ID: 04-0013-070-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 11.59 LONG: 080 48 05.96 U T M: 17 0516175.0 4757275.0 4 REGION: 01 DISTANCE: 254.973

*=INTERIM TEST-NAME:		FMSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	
SAMPLE DATE	HR	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CH AT 25 C	MF CNT /100HL	MF CNT /100HL	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830203	1120	33018	0.30	0101	9.000	299.0	4700	13600	3 6	0.5	0.605	0.052
830222	1120	33044	0.30	0101	15.000	550.0	40AID	550	6	4.0	0.135	0.042
830322	1120	33070	0.30	0101	17.000	570.0	20AID	370	6	1.0	0.010	0.038
830419	1120	33098	0.30	0101	13.500	550.0	40AID	80AID	6	9.0	0.075	0.001<
830518	1120	33126	0.30	0101	14.000	580.0	20	8	6	12.0	0.015	0.040
830622	1120	33154	0.30	0101	14.500	580.0	212	332	6	20.0	0.015	0.064
830720	1120	33182	0.30	0101	14.500	520.0	7400	8100	6	23.0	0.030	0.057
830817	1120	33210	0.30	0101	14.500	565.0	260	420	6	20.0	0.020	0.046
830921	1100	33338	0.30	0101	15.000	530.0			6	15.0	0.155	0.039
831018	1100	33366	0.30	0101	16.500	570.0			6	9.5	0.100	0.079
831123	1100	33392	0.30	0101	20.000	610.0			6	5.0	0.260	0.054
831221	1100	33418	0.30	0101	19.500	650.0	20AID	50AID	6	0.0	0.065	0.018
MAXIMUM		0.30			20.000	650.0	7400	13600		23.0	0.605	0.079
ARITH MEAN		0.30			15.250	547.8	1412	2612		9.9	0.124	0.048
GEOM MEAN					14.980	539.7	143	359			0.060	
MINIMUM		0.30			9.000	299.0	20	8		0.0	0.010	0.018
STD DEV (GEOM *)					2.872	85.6	10*	10*			0.169	
# SAMP IN STATISTICS		12			12	12	9	9		12	12	11
% SAMP (EXCLUDED)												8

*=INTERIM TEST-NAME:		NNO3FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP
SAMPLE DATE	HR	N03-N FIL.REAC MG/L AS N	UNF. REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L
830203	1120	33018	1.950	7.46	0.250	0.460	8	70.7
830222	1120	33044	1.030	8.02	0.064	0.096	4<	7.0
830322	1120	33070	0.940	8.17	0.005	0.084	4	14.5
830419	1120	33098	0.820	7.97	0.042	0.096	4<	19.2
830518	1120	33126	0.800	8.11	0.001<	0.056	4<	7.6
830622	1120	33154	0.680	8.05	0.008	0.041	4<	6.6
830720	1120	33182	0.510	7.93	0.067	0.080	24	17.2
830817	1120	33210	0.740	7.89	0.021	0.057	12	4.9
830921	1100	33338	1.950	7.73	0.175	0.395		34.8
831018	1100	33366	0.590	7.97	0.047	0.080		2.8
831123	1100	33392	1.250	7.86	0.141	0.305		29.7
831221	1100	33418	0.630	7.85	0.011	0.078	4<	13.9

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

120

B.O.W./ SITE: REYNOLDS CREEK  
 SAMPLE POINT: AT HIGHWAY NO.19  
 STATION TYPE: RIVER

STATION ID: 04-0013-070-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 58 11.59 LONG: 080 48 05.96 U T M: 17 0516175.0 4757275.0 4 REGION: 01 DISTANCE: 254.973

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		N03-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN	
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	
SAMPLE		MG/L	MG/L		MG/L	MG/L	MF	RESIDUE
DATE	HR	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.
YYMMDD	LMT	NUMBER					/100HL	MG/L
MAXIMUM		7.200	1.950	8.17	0.250	0.460	24	70.7
ARITH MEAN		5.208	0.991	7.92	0.076	0.152	12	19.1
GEOM MEAN		5.054	0.901	7.92		0.109		13.0
MINIMUM		3.520	0.510	7.46	0.005	0.041	4	2.8
STD DEV (GEOM *)		1.329	0.492	0.19		0.146		19.0
# SAMP IN STATISTICS		12	12	12	11	12	4	12
% SAMP (EXCLUDED)					8		55	

## 1983 WATER QUALITY DATA REGION 1

121

B.O.W./ SITE: REYNOLDS CREEK  
 SAMPLE POINT: AT N.DORCHESTER & S.W.OXFORD TWP.LINE  
 STATION TYPE: RIVER

STATION ID: 04-0013-071-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 55 12.94 LONG: 080 54 02.72

U T M: 17 0508100.0 4751750.0 4

REGION: 01

DISTANCE: 242.293

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR
						FECAL	FECAL			NH3-N	
						COLIFORM	STREPCUS			TOTAL	
SAMPLE	DATE	DATE	DEPTH	PROJECT	UNF.REAC	CONDUCT.	MF	STREAM	WATER	FIL.REAC	FIL.REAC
YYMMDD	HOUR	NUMBER	M	SUB-PROJ	MG/L	25C	CNT	COND.	TEMP	MG/L	MG/L
	LMT			CODE	AS CL-	AT 25 C	/100ML		DEG.C	AS N	AS N
830203	1055	33017	0.30	0101	11.000	306.0	7200	6 3	1.0	0.665	0.104
830222	1055	33043	0.30	0101	18.500	600.0	300	6	3.0	0.055	0.074
830322	1055	33069	0.30	0101	20.500	635.0	1020	6	1.0	0.215	0.029
830419	1055	33097	0.30	0101	17.000	590.0	270	6	8.0	0.080	0.025
830518	1055	33125	0.30	0101	17.000	650.0	1100	6	10.0	0.020	0.069
830622	1055	33153	0.30	0101	10.000	605.0	4200	6	23.0	0.070	0.088
830720	1055	33181	0.30	0101	20.000	565.0	790	6	25.0	0.035	0.044
830817	1055	33209	0.30	0101	16.000	630.0	1500>	6	19.0	0.025	0.083
830921	1040	33337	0.30	0101	20.500	645.0		6	16.0	0.010	0.040
831018	1040	33365	0.30	0101	22.000	710.0		6	10.0	0.005	0.020
831123	1040	33391	0.30	0101	26.000	710.0		6	5.0	0.090	0.044
831221	1040	33417	0.30	0101	22.500	710.0	120	6	1.0	0.145	0.025
MAXIMUM		0.30			26.000	710.0	7200		25.0	0.665	0.104
ARITH MEAN		0.30			18.417	613.0	1875		10.2	0.118	0.054
GEOM MEAN					17.809	601.0			6.0	0.053	0.047
MINIMUM		0.30			10.000	306.0	120		1.0	0.005	0.020
STD DEV (GEOM *)					4.611	108.2			8.7	0.183	0.029
# SAMP IN STATISTICS		12			12	12	8		12	12	12
% SAMP (EXCLUDED)							11				
*=INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP			
			K'DAHL N				PSEUDOMN				
			TOTAL				AERUG.				
SAMPLE	DATE	DATE	FIL.REAC	UNF.REAC	FIL.REAC	UNF.TOT.	HF	RESIDUE			
YYMMDD	HOUR	NUMBER	MG/L	MG/L	MG/L	MG/L	CNT	PARTIC.			
	LMT		AS N	AS N	AS P	AS P	/100ML	MG/L			
830203	1055	33017	3.850	4.100	7.47	0.305	0.625	4<	160.2		
830222	1055	33043	7.700	0.940	7.76	0.034	0.072	4	13.7		
830322	1055	33069	6.700	1.120	7.94	0.009	0.065	4	14.2		
830419	1055	33097	6.500	0.990	7.84	0.028	0.065	4<	15.0		
830518	1055	33125	4.700	0.900	7.95	0.003	0.058	4<	6.6		
830622	1055	33153	1.000	1.200	8.17	0.057	0.133	4<	9.7		
830720	1055	33181	1.080	0.110	7.90	0.032	0.065	4<	7.0		
830817	1055	33209	3.600	1.200	7.74	0.031	0.144	4	36.8		
830921	1040	33337	4.410	1.200	7.67	0.115	0.234		35.8		
831018	1040	33365	3.330	0.810	8.02	0.037	0.055		8.0		
831123	1040	33391	7.010	0.940	7.80	0.045	0.081		12.0		
831221	1040	33417	6.930	0.970	7.77	0.040	0.075	4	18.8		

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

122

B.O.W./ SITE: REYNOLDS CREEK  
 SAMPLE POINT: AT N.DORCHESTER & S.W.OXFORD TWP.LINE  
 STATION TYPE: RIVER

STATION ID: 04-0013-071-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 55 12.94

LONG: 080 54 02.72

U T M: 17 0508100.0 4751750.0 4

REGION: 01

DISTANCE: 242.293

*INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN	
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE
SAMPLE		MG/L	MG/L		MG/L	MG/L	MF	PARTIC.
DATE	HR	AS N	AS N	PH	AS P	AS P	CNT	MG/L
YYMMDD	LMT	NUMBER	AS N				/100HL	
MAXIMUM		7.700	4.100	8.17	0.305	0.625	4	160.2
ARITH MEAN		4.734	1.207	7.84	0.061	0.139	4	28.1
GEOM MEAN		4.001	0.950	7.83	0.035	0.101		16.8
MINIMUM		1.000	0.110	7.47	0.003	0.055	4	6.6
STD DEV (GEOM *)		2.281	0.957	0.18	0.082	0.162		42.8
# SAMP IN STATISTICS		12	12	12	12	12	4	12
% SAMP (EXCLUDED)							55	

## 1983 WATER QUALITY DATA REGION 1

123

B.O.W./ SITE: CEDER CREEK  
 SAMPLE POINT: AT EAST OXFORD TWP.RD.NO.5  
 STATION TYPE: RIVER

STATION ID: 04-0013-072-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 04 10.14 LONG: 080 44 04.94 U T M: 17 0521600.0 4768350.0 4 REGION: 01 DISTANCE: 257.256

*INTERIM TEST-NAME:		FMSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	HF CNT /100ML	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830203	1215	33020	0.30	0101	8.000	225.0	11900	13200	6 3	1.0	0.810	0.042
830222	1215	33046	0.30	0101	20.500	580.0	120	140	6	3.0	0.030	0.029
830322		33072	0.30	0101	20.000	670.0	4	4<	6	2.0	0.015	0.014
830419	1215	33100	0.30	0101	20.000	570.0	32	16	6	8.0	0.015	0.015
830518	1215	33128	0.30	0101	20.500	650.0	148	36	6	9.0	0.015	0.034
830622	1215	33156	0.30	0101	19.500	630.0	560	276	6	20.0	0.040	0.082
830720	1215	33184	0.30	0101	20.500	580.0	1500>	1500>	6	24.0	0.050	0.059
830817	1215	33212	0.30	0101	19.500	645.0	1300	350	6	19.0	0.010	0.041
830921	1140	33340	0.30	0101	20.500	620.0			6	15.0	0.030	
831018	1140	33368	0.30	0101	26.000	700.0			6	10.0	0.015	0.022
831123	1140	33394	0.30	0101	27.000	690.0			6	5.0	0.035	0.026
831221	1140	33420	0.30	0101	24.500	680.0	60AID	40AID	6	1.0	0.065	0.020
MAXIMUM		0.30			27.000	700.0	11900	13200		24.0	0.810	0.082
ARITH MEAN		0.30			20.542	603.3	1765	2008		9.7	0.094	0.035
GEOM MEAN					19.829	583.4				6.2	0.033	0.030
MINIMUM		0.30			8.000	225.0	4	16		1.0	0.010	0.014
STD DEV (GEOM *)					4.741	127.0				8.0	0.226	0.021
# SAMP IN STATISTICS		12			12	12	8	7		12	12	11
% SAMP (EXCLUDED)							11	22				

*INTERIM TEST-NAME:		NNO3FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAHF PSEUDONH AERUG.	RSP
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	NO3-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L
830203	1215	33020	2.560	2.150	7.46	0.380	0.585	80
830222	1215	33046	5.700	0.750	7.87	0.044	0.068	4<
830322		33072	4.800	0.520	7.94	0.011	0.018	4<
830419	1215	33100	5.900	0.710	8.05	0.027	0.051	4<
830518	1215	33128	5.100	0.670	8.01	0.007	0.026	4<
830622	1215	33156	1.800	0.670	8.12	0.024	0.066	4<
830720	1215	33184	1.490	0.550	8.19	0.070	0.160	364
830817	1215	33212	4.200	0.920	8.01	0.033	0.068	4
830921	1140	33340	2.000	0.770	7.83	0.055	0.104	21.7
831018	1140	33368	3.380	0.520	8.09	0.039	0.045	2.0
831123	1140	33394	6.120	0.690	7.87	0.039	0.059	7.8
831221	1140	33420	6.880	0.790	7.84	0.027	0.067	4<

(CONT'D)

## 124

STORET CODE: 02  
003  
2870

*INTERIM		TEST-NAME:	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	
			N03-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN		
SAMPLE			FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	AERUG.		
DATE	HOOR	SAMPLE	MG/L	MG/L		MG/L	MG/L	MF	RESIDUE	
YYMMDD	LHT	NUMBER	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.	
								/100ML	MG/L	
			MAXIMUM	6.880	2.150	8.19	0.380	0.585	364	41.0
			ARITH MEAN	4.161	0.809	7.94	0.063	0.110	149	12.8
			GEOM MEAN	3.708	0.746	7.94	0.036	0.069		8.6
			MINIMUM	1.490	0.520	7.46	0.007	0.018	4	2.0
			STD DEV (GEOM *)	1.870	0.438	0.19	0.101	0.154		11.9
# SAMP IN STATISTICS			12	12	12	12	12	3	12	
% SAMP (EXCLUDED)								66		

## 1983 WATER QUALITY DATA REGION 1

125

B.O.W./ SITE: NEWMBIGGIN CREEK  
 SAMPLE POINT: AT MOSA-EKFRID TWP.LINE SOUTH OF HWY.2  
 STATION TYPE: RIVER

STATION ID: 04-0013-073-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 43 04.71 LONG: 081 40 11.50 U T M: 17 0445150.0 4729500.0 4 REGION: 01 DISTANCE: 116.192

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FEUT
					BOD					FECAL	
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	IRON
SAMPLE		SAMPLE	SAMPLE	TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	UNF.TOT.
DATE	HR	NUMBER	DEPTH	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	MG/L
YYMMDD	LMT		M	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	AS FE
830125	1430	35011	0.30	0101	216.0	0.92	46.500	705.0		620	
830301	1600	35027	0.30	0101	226.0	1.32	24.500	580.0	0.0100	10<	0.8000
830329	1500	35044	0.30	0101	215.0	1.25	28.000	625.0	0.0100	80AID	1.5400
830426	1500	35061	0.30	0101	187.0	2.28	32.500	620.0	0.0100	10<	1.4000
830525	0730	35079	0.30	0101	203.0	1.04	21.500	620.0	0.0100	1000	3.0200
830628	1155	35094	0.30	0101	155.0	4.94	58.000	630.0	0.0100<	5200	2.4500
830726	0750	35112	0.30	0101	220.0		44.500	555.0	0.0100<	530	0.7700
830823	0845	35129	0.30	0101	219.0	2.20	44.000	640.0	0.0100<	310	1.6400
830927	1845	35146	0.30	0101	189.0	1.56	58.000	765.0	0.0060		
831024	1650	35163	0.30	0101	198.0	5.92	73.000	745.0	0.006		
831129	0800	35180	0.30	0101	126.0	3.66	35.000	500.0	0.019		
MAXIMUM		0.30			226.0	5.92	73.000	765.0	0.019	5200	3.0200
ARITH MEAN		0.30			195.8	2.51	42.318	635.0	0.010	1290	1.6600
GEOM MEAN					193.2	2.05	39.596	630.5		6.7	1.4875
MINIMUM		0.30			126.0	0.92	21.500	500.0	0.0060	80	0.7700
STD DEV (GEOM *)					30.9	1.75	16.013	78.8		3.6	0.8254
# SAMP 'N STATISTICS		11			11	10	11	11	7	6	7
% SAMP (EXCLUDED)								30	11	25	

*INTERIM TEST-NAME:		FMSF	FWSTRC	FWTEMP	NNHTR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH	PHNOL
		FECAL			NH3-N			K'DAHL N			
		STREPCUS			TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PHENOLS
SAMPLE		MF	STREAM	WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC
DATE	HR	CNT	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L
YYMMDD	LMT	/100ML		DEG.C	AS N	AS N	AS N	AS N	AS PB	PH	PHENOL
830125	1430	35011	6	1.0	0.265	0.024	4.180	0.900		8.00	1.000
830301	1600	35027	6	4.5	0.055	0.037	5.860	1.000	0.030<	8.18	
830329	1500	35044	6	6.0	0.030	0.022	5.300	1.160	0.030<	8.30	
830426	1500	35061	6	11.0	0.030	0.032	4.370	1.100	0.030<	8.36	
830525	0730	35079	6	14.0	0.030	0.050	5.400	0.960	0.030<	8.18	
830628	1155	35094	6	21.0	0.020	0.072	3.100	0.150	0.030<	8.07	
830726	0750	35112	6	20.0	0.015	0.021	1.880	1.480	0.030<	8.35	
830823	0845	35129	6	20.0	0.065	0.018	1.120	1.040	0.030<	8.21	
830927	1845	35146	6	19.0	0.035	0.118	8.880	1.200	0.003<	8.36	
831024	1650	35163	6	11.0	0.305	0.380	4.100	1.670	0.003<	7.75	
831129	0800	35180	6	4.0	0.115	0.059	8.900	2.550	0.021	7.79	

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

126

B.O.W./ SITE: NEWBIGGIN CREEK  
 SAMPLE POINT: AT MOSA-EKFRID TWP.LINE SOUTH OF HWY.2  
 STATION TYPE: RIVER

STATION ID: 04-0013-073-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 43 04.71 LONG: 081 40 11.50 U T M: 17 0445150.0 4729500.0 4 REGION: 01 DISTANCE: 116.192

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS MF	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PHENOLS UNF-REAC UG/L PHENOL
MAXIMUM		7400		21.0	0.305	0.380	8.900	2.550	0.021	8.36	1.000
ARITH MEAN		1547		12.0	0.088	0.076	4.826	1.201	0.021	8.14	1.000
GEOM MEAN				8.9	0.053	0.047	4.161	1.024		8.14	
MINIMUM		40		1.0	0.015	0.018	1.120	0.150	0.021	7.75	1.000
STD DEV (GEOM *)				7.4	0.102	0.105	2.474	0.587		0.22	
# SAMP IN STATISTICS		6		11	11	11	11	11	1	11	1
% SAMP (EXCLUDED)		25							90		

*INTERIM TEST-NAME:		PP04FR	PPUT	PSAMF PSEUDOWN AERUG.	RSP	TCHF COLIFORM TOTAL	TCHFBK COLIFORM TOTAL MF BCKGRD	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	MF CNT /100ML	MF CNT /100ML	FTU	ZINC UNF.TOT. MG/L AS ZN
830125	1430	35011	0.087	0.124	4<	25.5	27000	36000	45.00
830301	1600	35027	0.055	0.106	4<	30.3	10AID	460	25.00
830329	1500	35044	0.031	0.114	4<	25.7	500AID	11600	32.00
830426	1500	35061	0.005	0.066	4<	37.7	1600	6500	37.00
830525	0730	35079	0.059	0.142	4<	56.5	5900C	69000	79.00
830628	1155	35094	0.047	1.350	4<	57.8	19000	31000	75.00
830726	0750	35112	0.034	0.232	8	181.7	1600C	31500	236.00
830823	0845	35129	0.010	0.094	8	34.9	2200C	32000	52.00
830927	1845	35146	0.064	0.120		24.7		34.00	0.001
831024	1650	35163	0.440	0.650		64.1		81.00	0.010
831129	0800	35180	0.250	0.670		234.2		430.00	0.050
MAXIMUM		0.440	1.350	8	234.2	27000	69000	430.00	0.050
ARITH MEAN		0.098	0.333	8	70.3	7226	27257	102.36	0.016
GEOM MEAN		0.050	0.201		50.7	1743	15093	66.62	
MINIMUM		0.005	0.066	8	24.7	10	460	25.00	0.001
STD DEV (GEOM *)		0.131	0.401		70.5	12*	5*	123.56	
# SAMP IN STATISTICS		11	11	2	11	8	8	11	7
% SAMP (EXCLUDED)				75				30	

## 1983 WATER QUALITY DATA REGION 1

127

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX CO.ROAD NO.45  
 STATION TYPE: RIVER

STATION ID: 04-0013-075-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 41 56.74 LONG: 081 39 52.09 U T M: 17 0445575.0 4727400.0 4 REGION: 01 DISTANCE: 112.455

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NNO2FR
						FECAL	FECAL			NH3-N	
						COLIFORM	STREPCUS			TOTAL	
						MF	MF			FIL.REAC	FIL.REAC
						CNT	CNT			MG/L	MG/L
						/100ML	/100ML			AS N	AS N
SAMPLE	DATE	DATE	DEPTH	PROJECT	UNF.REAC	CONDUCT,		STREAM	WATER		
DATE	HR	HR	M	SUB-PROJ	MG/L	25C		COND.	TEMP		
YYMMDD	LMT	NUMBER		CODE	AS CL-	AT 25 C			DEG.C		
830301	1630	35028	0.30	0101	33.500	680.0	68	6	4.0	0.010	0.011
830329	1530	35045	0.30	0101	46.000	650.0	210	6	4.0	0.095	0.047
830426	1520	35062	0.30	0101	27.500	570.0	10<	6	12.0	0.015	0.032
830525	0700	35078	0.30	0101	22.000	560.0	164	6	15.0	0.015	0.057
830628	1230	35095	0.30	0101	36.500	550.0	184	6	23.0	0.060	0.125
830726	0825	35113	0.30	0101	45.000	570.0	230	6	24.0	0.020	0.032
830823	0800	35128	0.30	0101	30.500	570.0	100	6	22.0	0.050	0.015
830927	1500	35145	0.30	0101	26.500	555.0		6	17.0	0.015	0.017
831024	1630	35162	0.30	0101	38.000	610.0		6	10.0	0.020	0.021
831129	0730	35179	0.30	0101	30.500	565.0		6	4.0	0.075	0.062
		MAXIMUM	0.30		46.000	680.0	230		24.0	0.095	0.125
		ARITH MEAN	0.30		33.600	588.0	159		13.5	0.037	0.042
		GEOM MEAN			32.785	586.6			10.9	0.028	0.032
		MINIMUM	0.30		22.000	550.0	68		4.0	0.010	0.011
		STD DEV (GEOM *)			7.838	44.2			8.0	0.030	0.034
		* SAMP IN STATISTICS	10		10	10	6		10	10	10
		% SAMP (EXCLUDED)					14				
*=INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PPO4FR	PPUT	PSAMF	RSP	TURB		
			K'DAHL N				PSEUDOMN				
			TOTAL				AERUG.				
							MF				
							CNT				
							/100ML				
SAMPLE	DATE	DATE	FIL.REAC	UNF.REAC	FIL.REAC	PHOSPHOR		RESIDUE	TURB'ITY		
DATE	HR	HR	MG/L	MG/L	MG/L	UNF.TOT.		PARTIC.	FTU		
YYMMDD	LMT	NUMBER	AS N	AS N	AS P	AS P		MG/L			
830301	1630	35028	5.200	0.660	8.28	0.016	0.045	21.0	24.00		
830329	1530	35045	4.400	0.750	8.20	0.015	0.072	20.1	21.00		
830426	1520	35062	8.600	0.850	8.45	0.003	0.063	41.8	17.80		
830525	0700	35078	5.400	1.160	8.31	0.031	0.169	46.0	52.00		
830628	1230	35095	2.800	0.195	8.18	0.060	1.100	116.3	122.00		
830726	0825	35113	2.070	1.000	8.31	0.011	0.061	19.8	26.00		
830823	0800	35128	2.700	1.100	8.33	0.028	0.192	116.6	132.00		
830927	1500	35145	3.230	0.800	8.22	0.104	0.163	58.4	52.00		
831024	1630	35162	3.400	0.860	8.21	0.067	0.146	38.9	42.00		
831129	0730	35179	5.100	1.580	7.98	0.130	0.460	218.4	380.00		

(CONTD)



## 1983 WATER QUALITY DATA REGION 1

128

B.O.W./ SITE: THAMES RIVER  
 SAMPLE POINT: AT MIDDLESEX CO.ROAD NO.45  
 STATION TYPE: RIVER

STATION ID: 04-0013-075-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 42 41 56.74 LONG: 081 39 52.09

U T M: 17 0445575.0 4727400.0 4

REGION: 01

DISTANCE: 112.455

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
		NO3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN		
		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE	TURB'ITY
SAMPLE DATE	YEAR	MG/L	MG/L	PH	MG/L	MG/L	CNT	PARTIC.	FTU
YYMMDD	LMT	AS N	AS N		AS P	AS P	/100ML	MG/L	
MAXIMUM		8.600	1.580	8.45	0.130	1.100	8	218.4	380.00
ARITH MEAN		4.290	0.895	8.25	0.046	0.247	6	69.7	86.88
GEOM MEAN		3.953	0.805	8.25	0.029	0.147		50.5	52.60
MINIMUM		2.070	0.195	7.98	0.003	0.045	4	19.8	17.80
STD DEV (GEOM *)		1.912	0.361	0.12	0.043	0.323		63.4	110.76
# SAMP IN STATISTICS		10	10	10	10	10	4	10	10
% SAMP (EXCLUDED)							42		

## 1983 WATER QUALITY DATA REGION 1

129

B.O.W./ SITE: SCHOOL HOUSE DRAIN  
 SAMPLE POINT: N EASTHOPE CONC 1.3KM WEST OF CONC RD14  
 STATION TYPE: RIVER

STATION ID: 04-0013-076-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 23 16.95 LONG: 080 52 24.42 U T M: 17 0510250.0 4803700.0 4 REGION: 01 DISTANCE: 6.720

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	MF CNT /100HL	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	
830602	1200	34954	0.30	0101	8.500	80AID	30AID	9		0.010	0.017	4.080
830609	1400	34957	0.30	0101	8.500	70AID	80AID	9	17.0	0.170	0.075	3.800
830616	1800	34960	0.30	0101	9.000	600>	64	9	24.0	0.170	0.089	2.500
830622	1115	34963	0.30	0101	7.500	1700	80	8 9		0.050	0.133	0.960
830707	1200	34966	0.30	0101	10.000	1220	236	8 9	17.0	0.045	0.076	4.700
830714	1315	34969	0.30	0101	7.500	1400	112			0.015	0.013	0.050
830721	1440	34972	0.30	0101	8.000	1300	390	7 9	26.0	0.050	0.003	0.010<
830728	1430	34975	0.30	0101		2000	380	7 9				
830804	1424	34978	0.30	0101	10.500	1500>	1500>	8	19.0	0.030	0.027	1.250
830811	1300	34981	0.30	0101	110.000	2400	16600>	3 6 8	16.0	0.065	0.002	0.300
830818	1240	34984	0.30	0101	8.000			5 7	21.0	0.030	0.039	0.750
830825	1345	34987	0.30	0101	8.000	490	90AID	5 7 9	23.0	0.935	0.018	0.230
830901	1515	34990	0.30	0101	10.000	3700	88	8	22.0	0.180	0.039	0.940
830908	1445	34993	0.30	0101	8.000	1200	152	7	21.0	0.090	0.016	0.410
830915	1110	34996	0.30	0101	6.000	360	120	7	13.0	0.005	0.195	0.800
830921	1315	34999	0.30	0101	13.000	27000	25000>	3	15.0	0.070	0.045	3.000
831013	1130	35002	0.30	0101	15.000	3200	9100			0.010	0.018	1.740
831020	1405	35005	0.30	0101	12.000	230	60AID	6	9.0	0.025	0.015	2.000
831025	1249	35008	0.30	0101	13.000	210	380	6	8.5	0.020	0.017	2.400
831103	1406	35011	0.30	0101	14.500	1480	1360	6	8.5	0.015	0.008	1.600
MAXIMUM		0.30			110.000	27000	9100		26.0	0.935	0.195	4.700
ARITH MEAN		0.30			15.105	2826	795		17.3	0.104	0.044	1.751
GEOM MEAN					10.834				16.3	0.043	0.025	
MINIMUM		0.30			6.000	70	30		8.5	0.005	0.002	0.050
STD DEV (GEOM *)					23.121				5.7	0.209	0.050	
# SAMP IN STATISTICS		20			19	17	16		15	19	19	18
% SAMP (EXCLUDED)						10	15					5

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

130

B.O.W./ SITE: SCHOOL HOUSE DRAIN  
 SAMPLE POINT: N EASTHOPE CONC 1.3KM WEST OF CONC RD14  
 STATION TYPE: RIVER

STATION ID: 04-0013-076-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: THAMES RIVER

STORET CODE: 02  
 003  
 2870

LAT: 43 23 16.95 LONG: 080 52 24.42

U T M: 17 0510250.0 4803700.0 4

REGION: 01

DISTANCE: 6.720

*INTERIM TEST-NAME:		NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB	
		K'DAHL N				PSEUDOMN			
		TOTAL		P04	PHOSPHOR	AERUG.			
SAMPLE		UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE	TURB'ITY	
DATE	HR	MG/L		MG/L	MG/L	CNT	PARTIC.	FTU	
YYMMDD	LMT	AS N	PH	AS P	AS P	/100ML	MG/L		
830602	1200	34954	1.020	8.37	0.006	0.074	4<	22.1	7.30
830609	1400	34957	2.550	8.48	0.012	0.385	4<	159.2	42.00
830616	1800	34960	1.720	8.38	0.023	0.202	4<	67.1	49.00
830622	1115	34963	2.960	7.64	0.004	0.354	4<	170.6	68.00
830707	1200	34966	0.760	8.11	0.019	0.083	4<	14.9	2.30
830714	1315	34969	0.810	8.26	0.040	0.065	4<	10.6	5.70
830721	1440	34972	0.480	8.08	0.021	0.108	80	6.4	4.40
830728	1430	34975				8			
830804	1424	34978	0.910	7.92	0.027	0.073	116	4.8	5.40
830811	1300	34981	1.200	7.63	0.085	0.140	228C	9.8	16.70
830818	1240	34984	1.140	8.19	0.010	0.072		24.8	14.70
830825	1345	34987	9.250	8.15	0.007	0.925	4<	478.0	118.00
830901	1515	34990	1.290	8.05	0.039	0.092	52	11.2	5.40
830908	1445	34993	0.740	8.05	0.025	0.059	4<	13.4	4.80
830915	1110	34996	0.800	7.83	0.059	0.098	4<	19.7	9.60
830921	1315	34999	1.200	7.68	0.121	0.166	128	16.1	18.00
831013	1130	35002	0.790	7.86	0.024	0.049	4	4.5	3.20
831020	1405	35005	0.620	7.99	0.011	0.028	4<	6.5	2.80
831025	1249	35008	1.610	7.78	0.008	0.111	4<	35.4	8.10
831103	1406	35011	0.840	7.70	0.029	0.058	4	2.9	3.70
MAXIMUM		9.250	8.48	0.121	0.925	228	478.0	118.00	
ARITH MEAN		1.615	8.01	0.030	0.165	77	56.7	20.48	
GEOM MEAN		1.190	8.00	0.020	0.110		19.5	10.05	
MINIMUM		0.480	7.63	0.004	0.028	4	2.9	2.30	
STD DEV (GEOM *)		1.956	0.26	0.030	0.208		113.1	29.76	
# SAMP IN STATISTICS		19	19	19	19	8	19	19	
% SAMP (EXCLUDED)						57			

## 1983 WATER QUALITY DATA REGION 1

131

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43

U T M: 17 0386125.0 4716225.0 4

REGION: 01

DISTANCE: 4.506

*INTERIM TEST-NAME:		FWSADP	FGPROJ	AGUT	ALKT	ASUT	BOD5	CAUT	CCNAUR	CCNFUR	CDUT
							BOD		CYANIDE	CYANIDE	
					SILVER	ALK	ARSENIC	CALCIUM	AVAIL	FREE	CADMIUM
					UNF.TOT.	TOTAL	UNF.TOT.	UNF.TOT.	UNF.REAC	UNF.REAC	UNF.TOT.
					MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
					AS AG	AS CAC03	AS AS	AS CA	AS HCN	AS HCN	AS CD
SAMPLE	DATE	TIME	DEPTH	PROJECT	UNF.TOT.	ALK	ARSENIC	CALCIUM	AVAIL	FREE	CADMIUM
YYMMDD	HHMM	NUMBER	M	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
				CODE	AS AG	AS CAC03	AS AS	AS CA	AS HCN	AS HCN	AS CD
830104	1100	36002	0.30	0101							
830106	1030	41600	0.30	0103							
830208	1040	36012	0.30	0101		145.0	0.001 <	1.90			0.0002<
830225	1145	41601	0.30	0103							0.0009
830302	1145	41602	0.30	0103							0.0002<
830304	1030	41603	0.30	0103							0.0002<
830308		36022	0.30	0101		162.0	0.001 <	1.46			
830309	1200	41604	0.30	0103							0.0002<
830330	1145	41605	0.30	0103		168.9					0.0002<
830405	1145	36032	0.30	0101		123	0.001 <	1.27			
830418	1130	41606	0.30	0103		151.3					0.0007
830502	1145	41607	0.30	0103		130.4					0.0002<
830503	1045	36042	0.30	0101		123.0	0.001	3.80	71.000		
830504	1145	41608	0.30	0103		132.1					0.0002
830506	1200	41609	0.30	0103		135.7					0.0002<
830509	1145	41610	0.30	0103		168.5					0.0002<
830525	1130	41611	0.30	0103		167.2					0.0002<
830607	1220	36052	0.30	0101		193.0	0.001 <	1.06	0.001<M		
830608	1150	41612	0.30	0103		189.0					0.0002<
830629	1145	41613	0.30	0103		151.0					0.0002<
830705	1105	36062	0.30	0101		179.0	0.001	1.60		0.001<T	
830706	0930	41614	0.30	0103		185.2					0.0002<
830725	1150	41615	0.30	0103		103.0					0.0002<
830803	1200	41616	0.30	0103		136.0					0.0002
830809	0955	36072	0.30	0101		121.0	0.001 <	1.13	0.002<T		
830818	1100	41617	0.30	0103		95.1					0.0002<
830913	1015	36082	0.30	0101	0.0050<	102.0	0.001 <		0.001<M		0.0002<
830914	1145	41618	0.30	0103		96.5					0.0002<
830929	0830	41619	0.30	0103		94.1					0.0002<
831004	1030	36092	0.30	0101		89.0	0.0010<	0.68	0.001<		0.0002<
831011	0845	41620	0.30	0103		90.8					0.0002<
831030	0830	41630	0.30	0103		93.9					0.0002<
831108	1430	36102	0.30	0101		96.2	0.001 <	2.03			0.0002
831123	1145	41631	0.30	0103		136.1					0.0003
831206	1005	36112	0.30	0101		146.0	0.001	1.14	0.002<T		
831214	1130	41632	0.30	0103		109.7					0.0002<

( CONT D )

## 1983 WATER QUALITY DATA REGION 1

132

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43

U T M: 17 0386125.0 4716225.0 4

REGION: 01

DISTANCE: 4.506

*INTERIM TEST-NAME:		FWSADP	FGPROJ	AGUT	ALKT	ASUT	BOD5	CAUT	CCNAUR	CCNFUR	CDUT
				SILVER	ALK	ARSENIC	BOD	CALCIUM	CYANIDE	CYANIDE	CADMIUM
				UNF.TOT.	TOTAL	UNF.TOT.	5 DAY	UNF.TOT.	AVAIL	FREE	
SAMPLE DATE	YHMMDD LMT	SAMPLE HOUR	DEPTH	MG/L	MG/L	MG/L	TOT.DEM.	MG/L	MG/L	MG/L	MG/L
		NUMBER	M	AS AG	AS CAC03	AS AS	AS O	AS CA	AS HCN	AS HCN	AS CD

MAXIMUM	0.30			193.0	0.001	3.80	71.000	0.002	0.001	0.0009
ARITH MEAN	0.30			134	0.001	1.53	71.000	0.001<A	0.001<A	0.0004
GEOM MEAN				130		1.36				
MINIMUM	0.30			89.0	0.001	0.68	71.000	0.001	0.001	0.0002
STD DEV (GEOM *)				33		0.87				
* SAMP IN STATISTICS	36			30	3	11	1	4	1	6
% SAMP (EXCLUDED)					72			20		77

*INTERIM TEST-NAME:		CLIDUR	COND25	CRUT	CUUT	DO	FCMF	FSHF	FWSTRC	FWTEMP	HGUT
		CHLORIDE	CONDUCT.	CHROMIUM	COPPER	DISOLVED	FECAL	FECAL			MERCURY
		UNF.REAC	25C	UNF.TOT.	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS			UNF.TOT.
SAMPLE DATE	YHMMDD LMT	MG/L	UMHO/CM	MG/L	MG/L	MG/L	MF	MF	STREAM	WATER	UG/L
		AS CL-	AT 25 C	AS CR	AS CU	AS O	CNT	CNT	COND.	TEMP	AS HG
							/100ML	/100ML		DEG.C	
830104	1100	36002	19.000	380.0		10.0	100<	100AID	6	1.0	
830106	1030	41600			0.018						
830208	1040	36012	22.500	457.0	0.0200<		360	1250	4	1.0	0.01
830225	1145	41601			0.016						
830302	1145	41602			0.006						
830304	1030	41603			0.004						
830308		36022	31.000	540.0	0.0200		130	80AID	6	8.0	
830309	1200	41604			0.005						
830330	1145	41605		579.0	0.007						
830405	1145	36032	22.000	400	0.0200		52	4	6	6.0	0.01
830418	1130	41606		460.0	0.014						
830502	1145	41607		432.0	0.017						
830503	1045	36042	19.000	336.0	0.0200		1200	6700	3	11.0	0.08
830504	1145	41608		336.0	0.022						
830506	1200	41609		381.0	0.044						
830509	1145	41610		464.0	0.020						
830525	1130	41611		505.0	0.005						
830607	1220	36052	33.000	580.0	0.0200<		10AID	10AID	6	16.0	0.02 <
830608	1150	41612		533.0	0.004						
830629	1145	41613		409.0	0.004						0.02
830705	1105	36062	19.500	478.0	0.0200<		110	10AID	6	24.0	0.02
830706	0930	41614		480.0	0.004						
830725	1150	41615		298.0	0.004						
830803	1200	41616		498.0	0.007						

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

133

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43

U T M: 17 0386125.0 4716225.0 4

REGION: 01

DISTANCE: 4.506

*INTERIM		TEST-NAME:	CLIDUR	COND25	CRUT	CUUT	DO	FCMF	FSMF	FWSTRC	FWTEMP	HGUT
			CHLORIDE	CONDUCT.	CHROMIUM	COPPER	DISOLVED	FECAL	FECAL			MERCURY
			UNF.REAC	25C	UNF.TOT.	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS		WATER	UNF.TOT.
			MG/L	UMHO/CM	MG/L	MG/L	MG/L	MF	MF		TEMP	UG/L
			AS CL-	AT 25 C	AS CR	AS CU	AS O	CNT	CNT	STREAM	DEG.C	AS HG
								/100ML	/100ML	COND.		
SAMPLE	DATE	NUMBER										
DATE	TIME											
YYMMDD	LMT											
830809	0955	36072	41.500	495.0	0.0200<	0.0100		180	56	6	24.0	0.01 <
830818	1100	41617		298.0		0.002						
830913	1015	36082	11.000	284.0	0.002	0.006				6	22.0	0.01
830914	1145	41618		247.0								
830929	0830	41619		297.0		0.004						
831004	1030	36092	28.500	312.0	0.0020					6	19.0	0.010<
831011	0845	41620		254.0		0.003						
831030	0830	41630		318.0		0.002						
831108	1430	36102	36.500	366.0	0.001	0.037				6	9.0	0.01
831123	1145	41631		571.0		0.011						
831206	1005	36112	28.500	530.0		0.009	6.0	460	500	6	3.0	
831214	1130	41632		379.0		0.012						
MAXIMUM			41.500	580.0	0.0200	0.044	10.0	1200	6700		24.0	0.08
ARITH MEAN			26.000	416	0.011	0.011	8.0	313	968		12.0	0.02
GEOM MEAN			24.563	404		0.008	7.7		97		7.9	
MINIMUM			11.000	247.0	0.001	0.002	6.0	10	4		1.0	0.01
STD DEV (GEOM %)			8.689	101		0.010	2.8		12*		8.7	
# SAMP IN STATISTICS			12	31	6	31	2	8	9		12	7
% SAMP (EXCLUDED)					40			11				30
*INTERIM		TEST-NAME:	NIUT	NNHTFR	NNOTFR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH	PHNOL	PP04FR
			NICKEL	NH3-N	TOTAL	N02+N03N	N02-N	N03-N	K'DAHL N			
			UNF.TOT.	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	LEAD	PHENOLS	P04
			MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UNF.TOT.	UNF-REAC	FIL.REAC
			AS NI	AS N	AS N	AS N	AS N	AS N	AS N	AS PB	UG/L	MG/L
											PHENOL	AS P
SAMPLE	DATE	NUMBER										
DATE	TIME											
YYMMDD	LMT											
830104	1100	36002		0.025		0.013	2.390	0.700		8.08		0.030
830106	1030	41600			0.095	0.0630			0.005	8.03		0.0370
830208	1040	36012	0.020<	0.115		0.030	5.600	1.090		7.21		0.097
830225	1145	41601			6.900	0.0360	6.860		0.007	7.90		0.0715
830302	1145	41602			4.200	0.0820	4.120		0.003<	8.24		0.0420
830304	1030	41603			4.500	0.0660	4.430		0.003<	7.96		0.0490
830308		36022	0.020<	0.030		0.014	3.590	0.710		8.07		0.012
830309	1200	41604			4.800	0.0355	4.760		0.006	8.12		
830330	1145	41605			4.800	0.0090	4.790		0.003<	8.16		0.0300
830405	1145	36032	0.020<	0.070		0.015	2.83	0.760		8.21		0.009
830418	1130	41606			7.000	0.0340	6.970		0.003<	8.19		0.1030
830502	1145	41607			7.900	0.0355	7.870		0.009	8.07		0.1240

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

134

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43

U T M: 17 0386125.0 4716225.0 4

REGION: 01

DISTANCE: 4.506

* = INTERIM		TEST-NAME:	NIUT	NNHTFR NH3-N	NNOTFR	NNO2FR	NNO3FR	NNTKUR K'DAHL N	PBUT	PH	PHNOL	PP04FR
			NICKEL UNF. TOT. MG/L AS NI	TOTAL FIL. REAC MG/L AS N	NO2+NO3N FIL. REAC MG/L AS N	NO2-N FIL. REAC MG/L AS N	NO3-N FIL. REAC MG/L AS N	TOTAL UNF. REAC MG/L AS N	LEAD UNF. TOT. MG/L AS PB		PHENOLS UNF-REAC UG/L PHENOL	P04 FIL. REAC MG/L AS P
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER										
830503	1045	36042	0.020<	0.285		0.122	6.100	4.500		7.70		0.230
830504	1145	41608			5.900	0.0275	5.880		0.012	7.69		0.0770
830506	1200	41609			5.470	0.0410	5.430		0.004<	7.98		
830509	1145	41610							0.003	8.10		
830525	1130	41611			1.760	0.0090	1.750		0.003<	8.09		0.0600
830607	1220	36052	0.020<	0.055		0.051	4.050	0.960		8.05		0.022
830608	1150	41612			4.560	0.0110	4.550		0.003<	8.05		0.0400
830629	1145	41613			1.600	0.0770	1.520		0.005	8.00		0.0210
830705	1105	36062	0.020<	0.015		0.092	1.380	0.670		8.00		0.026
830706	0930	41614			1.360	0.0770	1.280		0.003<	8.01		0.0260
830725	1150	41615			1.150	0.0370	1.110		0.003<	8.12		0.0160
830803	1200	41616			4.730	0.0520	4.680		0.003<	7.57		0.0890
830809	0955	36072	0.030	0.115		0.116	6.000	1.100		7.93		0.025
830818	1100	41617			1.100	0.0115	1.090		0.003<	8.80		0.0140
830913	1015	36082	0.008	0.075		0.053	0.830	0.320		8.26		0.014
830914	1145	41618			0.540	0.0185	0.522		0.004	8.18		0.0060
830929	0830	41619			0.415	0.0180	0.397		0.003<	8.17		0.0050
831004	1030	36092	0.013	0.035		0.180	0.590	0.340		8.09	1.000	0.008
831011	0845	41620			0.385	0.0110	0.374		0.006	8.24		0.0060
831030	0830	41630			0.590	0.0160	0.574		0.003<	7.60		0.0035
831108	1430	36102	0.004	0.020		0.014	0.890	0.650		8.15	1.000<	0.049
831123	1145	41631			9.120	0.0590	9.060		0.004	7.99		0.0785
831206	1005	36112		0.050		0.031	7.100	0.990		7.84		0.076
831214	1130	41632			5.870	0.0310	5.840		0.005	8.18		0.1420
MAXIMUM			0.030	0.285	9.120	0.180	9.060	4.500	0.012	8.80	1.000	0.230
ARITH MEAN			0.014	0.074	3.685	0.045	3.68	1.066	0.006	8.03	1.000	0.050
GEOM MEAN				0.052	2.264	0.033	2.57	0.820		8.02		0.031
MINIMUM			0.004	0.015	0.095	0.0090	0.374	0.320	0.003	7.21	1.000	0.0035
STD DEV (GEOM *)				0.075	2.757	0.038	2.54	1.111		0.26		0.049
# SAMP IN STATISTICS			4	12	23	35	34	12	12	36	1	33
% SAMP (EXCLUDED)			60						57		50	

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

135

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT HIGHWAY 40 WALLACEBURG  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 04-0027-001-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 31.11 LONG: 082 23 16.43

U T M: 17 0386125.0 4716225.0 4

REGION: 01

DISTANCE: 4.506

*INTERIM		TEST-NAME:	PPUT	PSAMF	RSF	RSP	RST	SS04UR	TCMF	TCMFBK	TURB	ZNUT
			PHOSPHOR	PSEUDOMN					COLIFORM	COLIFORM		ZINC
			UNF.TOT.	AERUG.	RESIDUE	RESIDUE	RESIDUE	SULPHATE	TOTAL	TOTAL MF	TURB'ITY	UNF.TOT.
			MG/L	MF	MG/L	MG/L	MG/L	UNF.REAC	MF	BCKGRD	FTU	MG/L
			AS P	CNT	MG/L	MG/L	MG/L	AS S04	CNT	CNT		AS ZN
SAMPLE	DATE	HOUR	SAMPLE									
YYMMDD	LMT	NUMBER		/100ML					/100ML	/100ML		
830104	1100	36002	0.061	4<	250.000	9.600	259.2		4400	15000	24.00	
830106	1030	41600	0.059			8.290						
830208	1040	36012	0.170		338.000	40.200		45.000				0.0300
830225	1145	41601	0.260			210.000						
830302	1145	41602	0.091			27.100						
830304	1030	41603	0.089			23.500						
830308		36022	0.063		354.100	17.400		67.500				0.0100<
830309	1200	41604	0.070			27.400						
830330	1145	41605	0.088			42.700						
830405	1145	36032	0.052		257.200	18.600		39.500				0.0100
830418	1130	41606	0.250			115.000						
830502	1145	41607	0.815			478.000						
830503	1045	36042	1.380		218.000	1127.20		35.000				0.0700
830504	1145	41608	1.390			1169.00						
830506	1200	41609	0.086			153.000						
830509	1145	41610	0.015			21.600						
830525	1130	41611	0.122			42.800						
830607	1220	36052	0.098		342.600	28.000		48.000				0.0100<
830608	1150	41612	0.110			40.200						
830629	1145	41613	0.082			34.400						
830705	1105	36062	0.079		300.400	28.000		40.000				0.0100
830706	0930	41614	0.092			35.200						
830725	1150	41615	0.047			15.800						
830803	1200	41616	0.160			62.500						
830809	0955	36072	0.100		380.500	24.100		45.000				0.0100<
830818	1100	41617	0.042			33.200						
830913	1015	36082	0.037		185.000	15.300		25.500				0.004
830914	1145	41618	0.037			16.000						
830929	0830	41619	0.028			15.500						
831004	1030	36092	0.027		303.000	12.800		20.500				0.005
831011	0845	41620	0.037			27.400						
831030	0830	41630	0.025			4.210						
831108	1430	36102	0.108		23.800	10.400		29.500				0.006
831123	1145	41631	0.205			28.100						
831206	1005	36112	0.118		368.900	7.900		58.500				0.008
831214	1130	41632	0.442			252.000						

( C O N T D )



## 136

STATION ID: 04-0027-001-83

STORET CODE: 02  
003  
2980

LAT: 42 35 31.11 LONG: 082 23 16.43 U T M: 17 0386125.0 4716225.0 4 REGION: 01 DISTANCE: 4.506

[illegible]

## 1983 WATER QUALITY DATA REGION 1

137

B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: AT FIRST CONCESSION WEST OF PETROLIA  
 STATION TYPE: RIVER

STATION ID: 04-0027-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 51 50.05 LONG: 082 10 09.66 U T M: 17 0404475.0 4746150.0 4 REGION: 01 DISTANCE: 62.441

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
				AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE HOUR	SAMPLE	DEPTH	PROJECT							
YYMMDD LMT	NUMBER	M	SUB-PROJ	CODE							
830104 1215	36004	0.30	0101			1.44	54.000	780.0		200AID	100<
830208 1150	36015	0.30	0101	198.0		0.82	36.000	635.0	0.0300	190	200
830308 1145	36025	0.30	0101	220.0		2.18	61.500	760.0	0.0100<	7.5	680
830405 1315	36035	0.30	0101	212.0		1.40	50.000	720.0	0.0100<	9.5	12
830503 1145	36045	0.30	0101	123.0		3.32	13.500	371.0	0.0100	1500	8900
830607 1350	36055	0.30	0101	200.0		1.34	27.500	600.0	0.0100	540	290
830705 1255	36065	0.30	0101	181.0		5.82	89.000	745.0	0.0100	1500>	680
830809 1135	36075	0.30	0101	141.0		3.10	57.000	625.0	0.0100<	6.0	410
830913 1155	36085	0.30	0101	113.0		6.94	345.000	1480.0	0.005	12.0	
831004 1155	36095	0.30	0101	163.0		1.58	115.000	865.0	0.0080	5.5	
831108 1540	36105	0.30	0101	181.0		3.20	195.000	1210.0	0.004	6.0	
831206 1215	36115	0.30	0101	199.0		1.74	74.000	835.0		910	400
	MAXIMUM	0.30		220.0		6.94	345.000	1480.0	0.0300	8300	8900
	ARITH MEAN	0.30		175.5		2.74	93.125	802.2	0.011	7.9	1559
	GEOM MEAN			171.8		2.26	65.681	758.6		7.6	
	MINIMUM	0.30		113.0		0.82	13.500	371.0	0.004	5.5	30
	STD DEV (GEOM *)			36.1		1.90	92.582	290.6		2.2	
	# SAMP IN STATISTICS	12		11		12	12	12	7	11	7
	% SAMP (EXCLUDED)								30	11	22
*INTERIM TEST-NAME:		FWSTRC	FNTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL	PP04FR
				NH3-N			K'DAHL N				
				TOTAL			TOTAL				
				FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	LEAD	PHENOLS	P04
				MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UNF-REAC	FIL.REAC
				AS N	AS N	AS N	AS N	AS N	AS PB	UG/L	MG/L
										PHENOL	AS P
830104 1215	36004	6	1.0	0.160	0.032	5.320	1.290		7.95		0.110
830208 1150	36015	6	1.0	0.070	0.023	6.100	0.760	0.030<	7.64	1.000<	0.082
830308 1145	36025	6	10.0	0.055	0.029	4.070	1.460	0.030<	8.01	1.000	0.021
830405 1315	36035	6	8.0	0.100	0.020	4.180	0.800	0.030<	8.18	1.500	0.026
830503 1145	36045	3	11.0	0.305	0.112	7.900	4.150	0.030<	7.69	2.000	0.270
830607 1350	36055	6	16.0	0.050	0.074	7.680	1.380	0.030<	7.97	1.000<	0.057
830705 1255	36065	6	22.0	0.080	0.099	1.560	1.720	0.030<	7.74	3.000	0.096
830809 1135	36075	6	23.0	0.090	0.144	6.900	1.700	0.030<	7.75	2.000	0.035
830913 1155	36085	6	20.0	0.480	0.044	1.890	1.400	0.003	8.22	1.500	0.038
831004 1155	36095	6	19.0	0.035	0.067	5.080	1.680	0.006	7.92	2.000	0.189
831108 1540	36105	6	9.0	0.250	0.068	4.600	1.840	0.003<	7.93	1.000<	0.235
831206 1215	36115	6	4.0	0.005	0.045	9.100	0.810		7.82	15.000	0.036

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

138

B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: AT FIRST CONCESSION WEST OF PETROLIA  
 STATION TYPE: RIVER

STATION ID: 04-0027-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 51 50.05 LONG: 082 10 09.66 U T M: 17 0404475.0 4746150.0 4 REGION: 01 DISTANCE: 62.441

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	LEAD MG/L AS PB	PHENOLS UNF-REAC MG/L PHENOL	P04 FIL.REAC MG/L AS P

MAXIMUM				23.0	0.480	0.144	9.100	4.150	0.006	8.22	15.000	0.270
ARITH MEAN				12.0	0.140	0.063	5.365	1.582	0.004	7.90	3.500	0.100
GEOM MEAN				8.2	0.085	0.053	4.787	1.420		7.90		0.071
MINIMUM				1.0	0.005	0.020	1.560	0.760	0.003	7.64	1.000	0.021
STD DEV (GEOM *)				7.9	0.139	0.039	2.315	0.892		0.18		0.086
# SAMP IN STATISTICS				12	12	12	12	12	2	12	8	12
% SAMP (EXCLUDED)								80		27		

*=INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSF	RSP	RST	SOLEXT	SS04UR	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	RESIDUE TOTAL MG/L	SOLVENT EXTRACT. MG/L	SULPHATE UNF.REAC MG/L AS SO4	COLIFORM TOTAL CNT /100ML	COLIFORM TOTAL MF CNT /100ML	TURB'ITY FTU

830104	1215	36004	0.220	4<	521.4	43.6	565.0	1		2900	15000	26.00
830208	1150	36015	0.128	4<	414.1	18.3		63.000	2500	6500	30.00	
830308	1145	36025	0.150	4	493.9	53.4		90.000	2400	5000	55.00	
830405	1315	36035	0.077	4<	456.0	29.8		79.000	360	380	19.10	
830503	1145	36045	1.060	10<	241.0	436.4		30.500	5200C	75000	880.00	
830607	1350	36055	0.195	4<	387.2	64.2		51.500	2600C	70000	111.00	
830705	1255	36065	0.298	96	511.1	91.3		64.000	26000	111000	79.00	
830809	1135	36075	0.140	372	450.7	93.8		74.000	29000C	370000	115.00	
830913	1155	36085	0.178		924.7	49.5		118.000			44.00	
831004	1155	36095	0.298		616.0	49.3		90.000			58.00	
831108	1540	36105	0.360		794.1	24.9		117.000			28.00	
831206	1215	36115	0.117	4	567.2	40.2		86.500	7300C	35000	45.00	

MAXIMUM			1.060	372	924.7	436.4	565.0	1	118.000	29000	370000	880.00
ARITH MEAN			0.268	119	531.4	82.9	565.0	1	78.500	8696	76431	124.17
GEOM MEAN			0.207		503.9	54.9		73.884	4264	22362	60.36	
MINIMUM			0.077	4	241.0	18.3	565.0	1	30.500	360	380	19.10
STD DEV (GEOM *)			0.263		182.2	113.8		26.220	4*	8*	240.12	
# SAMP IN STATISTICS			12	4	12	12	1	1	11	9	9	12
% SAMP (EXCLUDED)				55								

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

139

B.O.W./ SITE: BEAR CREEK  
SAMPLE POINT: AT FIRST CONCESSION WEST OF PETROLIA  
STATION TYPE: RIVER

STATION ID: 04-0027-004-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE ERIE  
TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
003  
2980

LAT: 42 51 50.05 LONG: 082 10 09.66 U T M: 17 0404475.0 4746150.0 4 REGION: 01 DISTANCE: 62.441

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830208	1150	36015	0.0200
830308	1145	36025	0.0100<
830405	1315	36035	0.0100<
830503	1145	36045	0.0500
830607	1350	36055	0.0200
830705	1255	36065	0.0200
830809	1135	36075	0.0200
830913	1155	36085	0.005
831004	1155	36095	0.008
831108	1540	36105	0.005

MAXIMUM 0.0500  
ARITH MEAN 0.018  
GEOM MEAN  
MINIMUM 0.005  
STD DEV (GEOM \*)  
# SAMP IN STATISTICS 8  
% SAMP (EXCLUDED) 20

## 1983 WATER QUALITY DATA REGION 1

140

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: AT DOWN MILLS ROAD UPSTREAM OF DRESDEN  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG007

STATION ID: 04-0027-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 35 21.07 LONG: 082 07 46.08

U T M: 17 0407325.0 4715600.0 4

REGION: 01

DISTANCE: 22.530

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCHF	FSMF
					BOD					FECAL	FECAL
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	DATE	DEPTH	PROJECT	ALK						
YYMMDD	HOUR	NUMBER	M	SUB-PROJ	TOTAL						
YYMMDD	LMT	NUMBER	M	CODE	AS CAC03						
830104	1030	36001	0.30	0101		0.75	22.000	630.0	12.0	30AID	100
830308	1005	36021	0.30	0101	228.0		22.500	620.0	0.0100<	9.5	52
830405	1110	36031	0.30	0101	221.0		2.200	600.0	0.0100	10.0	4<
830503	1020	36041	0.30	0101	156.0		20.000	337.0	0.0200	7.0	1900
830607	1150	36051	0.30	0101	220.0		20.500	555.0	0.0100<	9.5	180
830705	1030	36061	0.30	0101	212.0		21.000	550.0	0.0100	8.5	1500
830809	0915	36071	0.30	0101	183.0		20.500	565.0	0.0100<	6.5	350
830913	0940	36081	0.30	0101	195.0		18.000	505.0	0.003	5.0	
831004	0950	36091	0.30	0101	190.0		28.000	570.0	0.1300	6.5	
831108	1500	36101	0.30	0101	208.0		26.500	590.0	0.005	7.0	
831206	1005	36111	0.30	0101	198.0		28.000	620.0	0.011	6.0	1900
MAXIMUM		0.30			228.0	0.75	28.000	630.0	0.1300	12.0	1900
ARITH MEAN		0.30			201.1	0.75	20.836	558.4	0.027	8.0	670
GEOM MEAN					200.0		18.184	551.5		7.7	1413
MINIMUM		0.30			156.0	0.75	2.200	337.0	0.003	5.0	20
STD DEV (GEOM *)					21.5		7.037	82.2		2.1	52
# SAMP IN STATISTICS		11			10	1	11	11	7	11	7
% SAMP (EXCLUDED)								30		12	12
*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL
					NH3-N			K'DAHL N			
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PHENOLS
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC
					MG/L	MG/L	MG/L	MG/L	MG/L		UG/L
					AS N	AS N	AS N	AS N	AS PB	PH	PHENOL
SAMPLE	DATE	DATE	FLOW	STREAM	WATER						
YYMMDD	HOUR	NUMBER	M3	COND.	TEMP						
YYMMDD	LMT	NUMBER	/S		DEG.C						
830104	1030	36001	9.600	6	1.0	0.030	0.020	5.380	0.840	8.08	
830308	1005	36021	8.450	6	9.0	0.025	0.012	4.690	0.690	0.030<	1.000<
830405	1110	36031	7.550	6	7.0	0.020	0.011	4.640	0.640	0.030<	1.000
830503	1020	36041	123.000	3	12.0	0.175	0.082	5.400	4.550	0.030<	2.500
830607	1150	36051	17.200	6	15.0	0.050	0.059	5.040	1.140	0.030<	1.000
830705	1030	36061	6.770	6	23.0	0.010	0.042	4.100	1.040	0.030<	1.000<
830809	0915	36071	4.730	6	23.0	0.030	0.048	9.600	1.450	0.030<	1.500
830913	0940	36081	1.060	6	19.0	0.095	0.018	0.670	0.520	0.003<	1.500
831004	0950	36091	1.320	6	19.0	0.025	0.009	3.440	0.960	0.005	1.500
831108	1500	36101	2.460	6	9.0	0.015	0.006	1.510	0.600	0.003<	1.000<
831206	1005	36111	18.900	6	2.0	0.035	0.030	8.100	1.040	0.006	1.000<

(CONTD)

## 141

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE ERIE  
TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
003  
2980

**DISTANCE: 22.530**

[illegible]

## 1983 WATER QUALITY DATA REGION 1

142

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: 1ST.CONC SOUTH OF HWY.22 STRATHROY  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG005

STATION ID: 04-0027-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 55 52.27 LONG: 081 40 06.57

U T M: 17 0445450.0 4753175.0 4

REGION: 01

DISTANCE: 130.675

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCNF	FSMF
					BOD					FECAL	FECAL
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
SAMPLE DATE	HR	SAMPLE	SAMPLE	PROJECT	ALK	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
			M	CODE	AS CAC03	AS O	AT 25 C	AS CU	AS O	/100ML	/100ML
830104	1440	36009	0.30	0101		0.78	18.000	610.0	5.0	10<	40AID
830208	1420	36019	0.30	0101	184.0	0.67	18.000	580.0	7.0	36	56
830308	1420	36029	0.30	0101	236.0	1.57	17.000	575.0	0.0100<	10.0	12
830405	1515	36039	0.30	0101	235.0	1.10	17.500	580.0	0.0100<	11.5	4
830503	1400	36049	0.30	0101	149.0	2.08	9.000	310.0	0.0100<	5.0	4300
830607	1555	36059	0.30	0101	226.0	0.96	17.500	550.0	0.0100<	10.0	210
830705	1515	36069	0.30	0101	220.0	1.73	18.500	550.0	0.0100<	7.0	650
830809	1430	36079	0.30	0101	218.0	1.07	18.000	545.0	0.0100<	9.0	770
830913	1435	36089	0.30	0101	223.0	0.69	17.000	550.0	0.043	7.5	
831004	1430	36099	0.30	0101	234.0	0.97	22.000	685.0	0.0060	7.0	
831108	1715	36109	0.30	0101	240.0	0.87	21.500	600.0	0.150	7.0	
831206	1435	36119	0.30	0101	229.0	0.99	23.500	600.0	5.0	260	260
MAXIMUM			0.30		240.0	2.88	23.500	685.0	0.150	1210	4300
ARITH MEAN			0.30		217.6	1.19	18.125	561.2	0.055	7.6	700
GEOM MEAN					215.8	1.09	17.715	553.0		7.3	133
MINIMUM			0.30		149.0	0.67	9.000	310.0	0.0060	5.0	4
STD DEV (GEOM *)					27.4	0.62	3.594	88.1		2.1	9*
# SAMP IN STATISTICS			12		11	12	12	4	12	8	9
% SAMP (EXCLUDED)								60		11	

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL
					NH3-N			K'DAHL N			
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PHENOLS
SAMPLE DATE	HR	SAMPLE	STREAM	WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC
YYMMDD	LMT	NUMBER	FLOW	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L
			M3	DEG.C	AS N	AS N	AS N	AS N	AS PB	PH	PHENOL
			/S	COND.							
830104	1440	36009	1.590	6	1.0	0.125	0.020	3.930	0.630	7.98	
830208	1420	36019	1.950	6	1.0	0.075	0.015	4.000	0.590	7.99	1.000<
830308	1420	36029	1.410	6	10.0	0.060	0.018	3.230	0.630	8.09	1.000<
830405	1515	36039	1.600	6	7.0	0.045	0.014	3.890	0.560	8.28	1.000
830503	1400	36049	22.700	3	11.0	0.215	0.105	3.000	3.350	7.68	3.500
830607	1555	36059	2.320	6	15.0	0.045	0.047	3.850	0.960	8.17	4.500
830705	1515	36069	0.867	6	18.0	0.005	0.028	2.300	0.690	7.94	1.500
830809	1430	36079	0.888	6	21.0	0.060	0.059	4.100	0.880	7.95	6.500
830913	1435	36089	0.540	6	17.0	0.030	0.055	2.290	0.500	8.00	1.000<
831004	1430	36099	0.357	6	17.0	0.030	0.023	2.480	0.480	8.12	1.000<
831108	1715	36109	0.485	6	8.0	0.040	0.018	2.300	0.380	8.07	1.000<
831206	1435	36119	1.120	6	3.0	0.065	0.027	4.400	0.640	7.91	1.000<

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

143

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: 1ST CONC SOUTH OF HWY.22 STRATHROY  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG005

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STATION ID: 04-0027-007-02

STORET CODE: 02  
 003  
 2980

LAT: 42 55 52.27 LONG: 081 40 06.57 U T M: 17 0445450.0 4753175.0 4 REGION: 01 DISTANCE: 130.675

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC
SAMPLE DATE	TIME	SAMPLE NUMBER	COND.	TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	UG/L PHENOL
MAXIMUM		22.700		21.0	0.215	0.105	4.400	3.350		8.28	6.500
ARITH MEAN		2.986		10.7	0.066	0.036	3.314	0.857		8.01	3.400
GEOM MEAN		1.327		7.5	0.049	0.029	3.219	0.704		8.01	
MINIMUM		0.357		1.0	0.005	0.014	2.290	0.380		7.68	1.000
STD DEV (GEOM *)		6.238		6.9	0.055	0.027	0.807	0.801		0.15	
# SAMP IN STATISTICS		12		12	12	12	12	12		12	5
% SAMP (EXCLUDED)											54

*INTERIM TEST-NAME:		PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSF	RSP	RST	SS04UR	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB
SAMPLE DATE	TIME	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L	MF CNT /100ML	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	RESIDUE TOTAL MG/L	SULPHATE UNF.REAC MG/L	MF CNT /100ML	BCKGRD CNT /100ML	TURB'ITY FTU
830104	1440	36009	0.038	0.066	4<	382.4	9.0	391.4	500AID	2300	8.80
830208	1420	36019	0.035	0.066	4<	362.0	13.3		390C	3200	11.00
830308	1420	36029	0.009	0.062	4<	364.1	20.7		1000	5500	16.00
830405	1515	36039	0.017	0.040	4<	362.9	6.2		60AID	570	5.20
830503	1400	36049	0.250	0.940	30AID	202.0	335.8	34.000	14000	183000	740.00
830607	1555	36059	0.059	0.165	4<	331.7	44.9		2700C	28000	54.00
830705	1515	36069	0.052	0.139	12	342.5	43.7		3600C	39000	36.00
830809	1430	36079	0.055	0.086	112	381.9	24.3		2600	27000	21.00
830913	1435	36089	0.089	0.087		346.7	13.0				11.20
831004	1430	36099	0.070	0.094		391.7	12.5				7.80
831108	1715	36109	0.162	0.183		402.1	2.8				3.60
831206	1435	36119	0.033	0.061	4	355.1	6.3		1700	3500	8.30
MAXIMUM		0.250	0.940	112	402.1	335.8	391.4	34.000	14000	183000	740.00
ARITH MEAN		0.072	0.166	39	352.1	44.4	391.4	34.000	2950	32452	76.91
GEOM MEAN		0.051	0.105		347.6	17.3			1242	9118	17.12
MINIMUM		0.009	0.040	4	202.0	2.8	391.4	34.000	60	570	3.60
STD DEV (GEOM *)		0.069	0.248		51.6	92.8			5*	6*	209.33
# SAMP IN STATISTICS		12	12		12	12	1	1	9	9	12
% SAMP (EXCLUDED)				55							

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

144

B.O.W./ SITE: SYDENHAM RIVER  
SAMPLE POINT: 1ST.CONC SOUTH OF HWY.22 STRATHROY  
STATION TYPE: RIVER FLOW GAUGE FED 02GG005

STATION ID: 04-0027-007-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE ERIE  
TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
003  
2980

LAT: 42 55 52.27 LONG: 081 40 06.57 U T M: 17 0445450.0 4753175.0 4 REGION: 01 DISTANCE: 130.675

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830208	1420	36019	0.0100
830308	1420	36029	0.0100<
830405	1515	36039	0.0100<
830503	1400	36049	0.0300
830607	1555	36059	0.0100<
830705	1515	36069	0.0100<
830809	1430	36079	0.0100<
830913	1435	36089	0.001
831004	1430	36099	0.002
831108	1715	36109	0.002

MAXIMUM 0.0300

ARITH MEAN 0.009

GEOM MEAN

MINIMUM 0.001

STD DEV (GEOM \*)

# SAMP IN STATISTICS 5

% SAMP (EXCLUDED) 50

## 1983 WATER QUALITY DATA REGION 1

145

B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: AT TOWNSHIP LINE N-E OF AVONRY STP  
 STATION TYPE: RIVER

STATION ID: 04-0027-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 45 49.87 LONG: 082 20 30.93

U T M: 17 0390200.0 4735250.0 4

REGION: 01

DISTANCE: 34.278

*-INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	DO	FCMF	FSMF	FWSTRC
					BOD				FECAL	FECAL	
				ALK	5 DAY	CHLORIDE	CONDUCT.	DISOLVED	COLIFORM	STREPCUS	
				TOTAL	TOT.DEN.	UNF.REAC	25C	OXYGEN	MF	MF	
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	CNT	CNT	
				AS CAC03	AS O	AS CL-	AT 25 C	AS O	/100ML	/100ML	STREAM
SAMPLE	DATE	NUMBER	DEPTH	PROJECT							COND.
YYMMDD	HMT		M	SUB-PROJ							
				CODE							
830104	1130	36003	0.30	0101		1.12	50.000	760.0	4.0	400AID	100AID 6
830208	1110	36013	0.30	0101	174.0		33.000	565.0		190	810 6
830308	1110	36023	0.30	0101	219.0		61.500	775.0		220	50AID 6
830405	1230	36033	0.30	0101	215.0		58.000	755.0		32	8 6
830503	1115	36043	0.30	0101	137.0		37.500	483.0		660	2500 3
830607	1305	36053	0.30	0101	192.0		38.000	630.0		400	330 6
830705	1150	36063	0.30	0101	221.0		105.000	880.0		750	360 6
830809	1045	36073	0.30	0101	159.0		137.000	915.0		300	220 6
830913	1100	36083	0.30	0101	153.0		205.000	1050.0			6
831004	1110	36093	0.30	0101	160.0		165.000	1000.0			6
831108	1400	36103	0.30	0101	166.0		420.000	1920.0			6
831206	1125	36113	0.30	0101	160.0		48.000	650.0		1250	1100 6
MAXIMUM		0.30		221.0	1.12	420.000	1920.0	4.0	1250	2500	
ARITH MEAN		0.30		177.8	1.12	113.167	865.2	4.0	467	609	
GEOM MEAN				175.7		81.209	810.8		324	237	
MINIMUM		0.30		137.0	1.12	33.000	483.0	4.0	32	8	
STD DEV (GEOM *)				29.3		111.866	373.8		3*	6*	
# SAMP IN STATISTICS		12		11	1	12	12	1	9	9	
% SAMP (EXCLUDED)											
*-INTERIM TEST-NAME:		FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PH	PHNOL	PP04FR	PPUT	PSAMF
			NH3-N			K'DAHL N					PSEUDOMN
			TOTAL			TOTAL					AERUG.
			FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC		PHENOLS	PO4	PHOSPHOR	MF
			MG/L	MG/L	MG/L	MG/L		UNF-REAC	FIL.REAC	UNF.TOT.	CNT
			AS N	AS N	AS N	AS N		UG/L	MG/L	MG/L	/100ML
SAMPLE	DATE	NUMBER	WATER				PH	PHENOL	AS P	AS P	
YYMMDD	HMT		TEMP								
			DEG.C								
830104	1130	36003	1.0	0.205	0.028	5.470	1.110	7.92	1.000	0.001	0.135 4<
830208	1110	36013	1.0	0.080	0.026	6.000	0.970	7.46	1.000	0.081	0.148 4<
830308	1110	36023	9.0	0.105	0.039	4.010	1.040	8.07	9.000	0.027	0.126 4<
830405	1230	36033	7.0	0.045	0.025	4.030	0.740	8.20		0.013	0.072 4<
830503	1115	36043	11.0	0.210	0.094	7.100	2.020	7.75	2.000	0.129	0.460 4<
830607	1305	36053	16.0	0.050	0.069	8.530	0.730	8.00	1.500	0.067	0.110 4<
830705	1150	36063	22.0	0.030	0.047	3.000	1.500	7.90	2.000	0.081	0.268 4<
830809	1045	36073	23.0	0.060	0.087	7.800	2.100	7.87	2.500	0.033	0.180 4<
830913	1100	36083	19.0	0.165	0.028	0.030	1.300	7.92	1.500	0.051	0.194
831004	1110	36093	19.0	0.055	0.043	5.010	1.320	7.85	3.000	0.049	0.150
831108	1400	36103	9.0	0.015	0.030	1.030	1.080	7.92	5.000	0.008	0.260
831206	1125	36113	2.0	0.045	0.042	7.500	1.330	7.82	1.500	0.099	0.220 4<

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

147

B.O.W./ SITE: BLACK CREEK  
 SAMPLE POINT: AT COUNTY ROAD 9 WEST OF OIL SPRINGS  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GG101

STATION ID: 04-0027-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 47 15.99 LONG: 082 10 21.00

U T M: 17 0404100.0 4737700.0 4

REGION: 01

DISTANCE: 49.406

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FEUT
					BOD					FECAL	
					5 DAY	CHLORIDE	CONDUCT.			COLIFORM	IRON
					TOT.DEM.	UNF.REAC	25C			MF	UNF.TOT.
					MG/L	MG/L	UMHO/CM			CNT	MG/L
					AS O	AS CL-	AT 25 C			/100ML	AS FE
SAMPLE	DATE	TIME	SAMPLE	DEPTH	PROJECT	TOTAL					
YYMMDD	LMT	NUMBER	M	CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	AS FE
830308	1130	36024	0.30	0101	153.0	1.92	120.000	925.0	0.0100<	7.5	60AID
830405	1250	36034	0.30	0101	162.0	1.26	118.000	960.0	0.0100	8.0	36
830503	1135	36044	0.30	0101	77.6	4.40	28.500	236.0	0.0200		600
830607	1330	36054	0.30	0101	157.0	1.40	56.000	625.0	0.0100	10.0	1800
830705	1225	36064	0.30	0101	141.0	3.98	680.000	2600.0	0.0100	10.0	690 3.4000
830809	1115	36074	0.30	0101	174.0	1.70	89.000	805.0	0.0100	8.0	140
830913	1135	36084	0.30	0101	130.0	1.58	435.000	1800.0	0.006	6.5	
831004	1135	36094	0.30	0101	113.0	2.50	410.000	1720.0	0.2400	7.0	
831108	1535	36104	0.30	0101	166.0	2.84	265.000	1340.0	0.007	7.5	
831206	1155	36114	0.30	0101	111.0	1.58	93.500	710.0	0.020	9.0	1090
		MAXIMUM	0.30		174.0	4.40	680.000	2600.0	0.2400	10.0	1800 3.4000
		ARITH MEAN	0.30		138.5	2.32	229.500	1172.1	0.037	8.2	631 3.4000
		GEOM MEAN			135.0	2.11	150.707	978.8		8.1	305
		MINIMUM	0.30		77.6	1.26	28.500	236.0	0.006	6.5	36 3.4000
		STD DEV (GEOM *)			30.4	1.11	214.005	698.5		1.2	5*
		# SAMP IN STATISTICS	10		10	10	10	10	9	9	7 1
		% SAMP (EXCLUDED)							10		
*=INTERIM TEST-NAME:		FSMF	FMSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL
		FECAL			NH3-N			K'DAHL N			
		STREPCUS			TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PHENOLS
		MF			FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC
		CNT	STREAM	WATER	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L
		/100ML	COND.	TEMP	AS N	AS N	AS N	AS N	AS PB	PH	PHENOL
SAMPLE	DATE	TIME	SAMPLE	DEPTH	PROJECT	TOTAL					
YYMMDD	LMT	NUMBER	M	CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	AS FE
830308	1130	36024	10AID	6	10.0	0.010	0.011	4.390	1.020	0.030<	8.11 1.500
830405	1250	36034	4<	6	8.0	0.005	0.011	3.440	0.670	0.030<	8.28 1.500
830503	1135	36044	3900	3	11.0	0.490	0.146	5.700	6.200	0.030	7.63 3.500
830607	1330	36054	700	6	16.0	0.050	0.060	4.990	1.590	0.030<	7.89 2.000
830705	1225	36064	690	6	20.0	0.110	0.033	0.040	1.120	0.030<	7.79 2.500
830809	1115	36074	150	6	22.0	0.040	0.136	5.100	1.900	0.030<	7.96 2.500
830913	1135	36084		6	20.0	0.195	0.017	0.030	1.000	0.003<	8.08 1.500
831004	1135	36094		6	19.0	0.050	0.033	2.320	1.560	0.003<	7.99 4.500
831108	1535	36104		6	10.0	0.025	0.067	6.100	1.220	0.003<	7.90 5.000
831206	1155	36114	1400	6	4.0	0.080	0.046	4.900	1.540	0.055	7.79 1.000

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

148

B.O.W./ SITE: BLACK CREEK  
 SAMPLE POINT: AT COUNTY ROAD 9 WEST OF OIL SPRINGS  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GG101

STATION ID: 04-0027-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 47 15.99 LONG: 082 10 21.00 U T M: 17 0404100.0 4737700.0 4 REGION: 01 DISTANCE: 49.406

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PHENOLS UNF-REAC UG/L PHENOL
MAXIMUM		3900		22.0	0.490	0.146	6.100	6.200	0.055	8.28	5.000
ARITH MEAN		1142		14.0	0.105	0.056	3.701	1.782	0.042	7.94	2.550
GEOM MEAN				12.5	0.050	0.039	1.683	1.453		7.94	2.250
MINIMUM		10		4.0	0.005	0.011	0.030	0.670	0.030	7.63	1.000
STD DEV (GEOM *)				6.2	0.146	0.049	2.215	1.594		0.19	1.363
# SAMP IN STATISTICS		6		10	10	10	10	10	2	10	10
% SAMP (EXCLUDED)		14							80		

*INTERIM TEST-NAME:		PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSF	RSP	SS04UR	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB	ZNUT
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	SULPHATE UNF.REAC MG/L AS S04	COLIFORM TOTAL CNT /100ML	COLIFORM TOTAL MF CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830308	1130	36024	0.007	0.072	4<	685.5	33.1	150.000	1700	4400	0.0100<
830405	1250	36034	0.004	0.037	4<	658.5	22.0	155.000	150	400	0.0100
830503	1135	36044	0.380	1.680	4	153.000	691.0	38.000	12000	142000	0.0900
830607	1330	36054	0.067	0.290	4<	459.9	115.9	73.000	14000	180000	0.0400
830705	1225	36064	0.016	0.110	4	1861.4	55.6	155.000	5800C	48000	0.0100
830809	1115	36074	0.046	0.080	28	593.9	46.7	90.000	2800C	48000	0.0100
830913	1135	36084	0.032	0.142		1189.3	46.9	110.000			0.005
831004	1135	36094	0.011	0.090		367.5	40.7	112.000			0.009
831108	1535	36104	0.022	0.200		1007.9	25.9	111.000			0.009
831206	1155	36114	0.106	0.318	48	616.9	200.9	80.000	40000	57000	0.048
MAXIMUM		0.380	1.680	48	1861.4	691.0	155.000	40000	180000	2160.00	0.0900
ARITH MEAN		0.069	0.302	21	759.4	127.9	107.400	10921	68543	302.70	0.026
GEOM MEAN		0.029	0.157		628.0	65.7	99.842	4314	24884	96.63	
MINIMUM		0.004	0.037	4	153.000	22.0	38.000	150	400	22.00	0.005
STD DEV (GEOM *)		0.114	0.493		487.1	205.2	38.644	6*	9*	658.74	
# SAMP IN STATISTICS		10	10	4	10	10	10	7	7	10	9
% SAMP (EXCLUDED)				42							10

## 1983 WATER QUALITY DATA REGION 1

149

B.O.W./ SITE: BEAR CREEK  
 SAMPLE POINT: AT HIGHWAY 21 2 MILES N-E OF PETROLIA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG006

STATION ID: 04-0027-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 53 50.51 LONG: 082 07 25.48

U T M: 17 0408250.0 4749815.0 4

REGION: 01

DISTANCE: 73.706

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	DO	FCMF	FSMF	FWFLOW	
					BOD				FECAL	FECAL		
					5 DAY	CHLORIDE	CONDUCT.	DISOLVED	COLIFORM	STREPCUS	STREAM	
					TOT.DEM.	UNF.REAC	25C	OXYGEN	MF	MF	FLOW	
					MG/L	MG/L	UMHO/CM	MG/L	CNT	CNT	M3	
					AS O	AS CL-	AT 25 C	AS O	/100ML	/100ML	/S	
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03							
YYMMDD	LMT		M									
830104	1300	36005	0.30	0101		0.75	25.000	690.0	8.0	50AID	50AID	1.100
830208	1245	36016	0.30	0101	223.0	0.60	23.000	615.0		76	210	2.210
830308	1245	36026	0.30	0101	228.0	2.84	27.000	650.0		156	36	1.080
830405	1340	36036	0.30	0101	223.0	1.01	26.000	630.0		8	8	1.100
830503	1235	36046	0.30	0101	141.0	3.20	15.000	415.0		690	6100	20.200
830607	1415	36056	0.30	0101	206.0	1.36	22.000	610.0		470	350	5.440
830705	1325	36066	0.30	0101		2.84	29.500	560.0		900AID	430	0.171
830809	1220	36076	0.30	0101	165.0	2.10	38.000	560.0		630	220	0.246
830913	1245	36086	0.30	0101	168.0	1.18	99.500	740.0				0.014
831004	1215	36096	0.30	0101	171.0	1.32	40.000	605.0				0.133
831108	1555	36106	0.30	0101	209.0	2.56	87.000	840.0				0.182
831206	1245	36116	0.30	0101	236.0	2.42	30.000	660.0		560	1100	2.790
MAXIMUM			0.30		236.0	3.20	99.500	840.0	8.0	900	6100	20.200
ARITH MEAN			0.30		197.0	1.85	38.500	631.2	8.0	398	945	2.889
GEOM MEAN					194.4	1.62	32.801	623.1		204	206	0.695
MINIMUM			0.30		141.0	0.60	15.000	415.0	8.0	8	8	0.014
STD DEV (GEOM *)					32.9	0.91	26.568	103.7		5*	7*	5.672
# SAMP IN STATISTICS			12		10	12	12	12	1	9	9	12
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PH	PHNOL	PP04FR	PPUT	
				NH3-N	NO2-N	NO3-N	K'DAHL N					
				TOTAL			TOTAL					
				FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC		PHENOLS	PO4	PHOSPHOR	
				MG/L	MG/L	MG/L	MG/L		UNF-REAC	FIL.REAC	UNF.TOT.	
				AS N	AS N	AS N	AS N		UG/L	MG/L	MG/L	
				AS N	AS N	AS N	AS N	PH	PHENOL	AS P	AS P	
SAMPLE DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP								
YYMMDD	LMT			DEG.C								
830104	1300	36005	6	0.0	0.055	0.022	6.880	0.690	8.05		0.050	0.076
830208	1245	36016	6	0.0	0.040	0.022	6.300	0.680	7.99	1.000<	0.058	0.088
830308	1245	36026	6	11.0	0.360	0.050	4.650	1.720	7.69	1.000	0.001	0.116
830405	1340	36036	6	8.0	0.025	0.012	4.640	0.720	8.31	1.000	0.015	0.044
830503	1235	36046	3	11.0	0.235	0.103	8.400	1.940	7.77	4.000	0.166	0.440
830607	1415	36056	6	16.0	0.045	0.086	11.900	1.360	8.00	1.000	0.059	0.175
830705	1325	36066	6	20.0	0.010	0.009	0.990	0.920	7.87	2.500	0.034	0.176
830809	1220	36076	6	22.0	0.155	0.185	4.500	1.400	7.79	1.500	0.027	0.210
830913	1245	36086	6	20.0	0.285	0.056	0.140	0.780	7.90	1.000	0.016	0.076
831004	1215	36096	6	20.0	0.035	0.032	1.820	1.170	7.92	1.500	0.340	0.410
831108	1555	36106	6	9.0	0.025	0.008	0.380	1.480	8.14	1.500	0.305	0.440
831206	1245	36116	6	3.0	0.050	0.041	9.500	1.290	7.82	1.000<	0.059	0.181

(CONT'D)

## 150

STATION ID: 04-0027-010-02

STORET CODE: 02  
003  
2980

**DISTANCE: 73.706**

*=INTERIM	TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSF	RSP	RST	SOLEXT	SS04UR	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	MF CNT /100HL	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	RESIDUE TOTAL MG/L	SOLVENT EXTRACT. MG/L	SULPHATE UNF.REAC MG/L AS SO4	MF CNT /100ML	TURB'ITY FTU
830104	1300	36005	4<	422.2	116.7	538.9	1		1000	45.00
830208	1245	36016	4<	393.1	14.5			57.000		20.00
830308	1245	36026	4<	420.0	79.6			76.000		33.00
830405	1340	36036	4<	403.0	27.4			66.000		23.00
830503	1235	36046	4<	419.6	139.2			28.000		336.00
830607	1415	36056	8	388.1	56.5			42.000		80.00
830705	1325	36066	4	373.2	125.0			58.000		132.00
830809	1220	36076	4	417.9	119.1			70.000		145.00
830913	1245	36086		462.6	48.2			60.000		
831004	1215	36096		447.9	50.0			80.500		69.00
831108	1555	36106		513.3	25.7			88.500		34.00
831206	1245	36116	40	443.1	62.2			72.000		81.00
		MAXIMUM	40	513.3	139.2	538.9	1	88.500	1000	336.00
		ARITH MEAN	14	425.3	72.0	538.9	1	63.455	1000	90.73
		GEOM MEAN		423.9	58.7			60.806		63.42
		MINIMUM	4	373.2	14.5	538.9	1	28.000	1000	20.00
		STD DEV (GEOM *)		37.8	43.1			17.315		91.50
		# SAMP IN STATISTICS	4	12	12	1	1	11	1	11
		% SAMP (EXCLUDED)	55							

## 1983 WATER QUALITY DATA REGION 1

151

B.O.W./ SITE: BROWN CREEK  
 SAMPLE POINT: FIRST CONCESSION SOUTH OF WATFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA105

STATION ID: 04-0027-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 55 50.68 LONG: 081 52 06.09

U T M: 17 0429140.0 4753275.0 4

REGION: 01

DISTANCE: 117.157

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CDUT	CLIDUR	COND25	CRUT	CUUT	DO
					BOD						
					5 DAY	CADMIUM	CHLORIDE	CONDUCT.	CHROMIUM	COPPER	DISOLVED
					TOT. DEM.	UNF. TOT.	UNF. REAC	25C	UNF. TOT.	UNF. TOT.	OXYGEN
					MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L
					AS O	AS CD	AS CL-	AT 25 C	AS CR	AS CU	AS O
SAMPLE DATE	HR	SAMPLE	SAMPLE	PROJECT	ALK						
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL						
			M	CODE	MG/L						
					AS CAC03						
830104	1415	36007	0.30	0101		0.78	23.500	710.0			3.0
830208	1355	36018	0.30	0101	233.0	1.43	23.000	640.0	0.0200<	0.0200	9.0
830308	1400	36028	0.30	0101	209.0	1.76	22.500	585.0	0.0200	0.0100<	10.0
830405	1450	36038	0.30	0101	187.0	1.23	20.500	580.0	0.0600	0.0100	13.0
830503	1340	36048	0.30	0101	170.0	4.24	13.500	438.0	0.0300	0.0100	5.0
830607	1530	36058	0.30	0101	195.0	1.80	19.500	540.0	0.0500	0.0100	12.5
830705	1445	36068	0.30	0101	173.0	4.86	51.000	555.0	0.0200<	0.0100	8.5
830809	1350	36078	0.30	0101	164.0	2.82	36.000	620.0	0.0200<	0.0100	8.5
830913	1400	36088	0.30	0101	131.0	4.08	0.0002< 41.000	496.0	0.004	0.009	8.5
831004	1300	36098	0.30	0101	195.0	4.00	50.500	705.0	0.0040	0.0340	11.5
831108	1700	36108	0.30	0101	219.0	2.76	105.000	1700.0	0.002	0.009	10.5
831206	1410	36118	0.30	0101	144.0	1.86	28.000	520.0			10.5
		MAXIMUM	0.30		233.0	4.86	105.000	1700.0	0.0600	0.0340	13.0
		ARITH MEAN	0.30		183.6	2.63	36.167	674.1	0.024	0.014	9.2
		GEOM MEAN			181.2	2.29	30.816	629.6			8.6
		MINIMUM	0.30		131.0	0.78	13.500	438.0	0.002	0.009	3.0
		STD DEV (GEOM *)			31.0	1.36	24.884	332.9			2.9
		# SAMP IN STATISTICS	12		11	12	12	12	7	9	12
		% SAMP (EXCLUDED)							30	10	
*=INTERIM TEST-NAME:		FCMF	FSMF	FWSTRC	FWTEMP	NIUT	NNHTFR	NNO2FR	NNO3FR	NNTKUR	PBUT
		FECAL	FECAL				NH3-N			K'DAHL N	
		COLIFORM	STREPCUS			NICKEL	TOTAL	NO2-N	NO3-N	TOTAL	LEAD
		MF	MF		WATER	UNF. TOT.	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.
		CNT	CNT	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		/100ML	/100ML	COND.	DEG. C	AS NI	AS N	AS N	AS N	AS N	AS PB
830104	1415	36007	10<	70AID	4	1.0	0.080	0.024	7.330	0.880	
830208	1355	36018	24	170	6	1.0	0.020<	0.125	0.021	0.740	0.030<
830308	1400	36028	12	12	6	11.0	0.060	0.010	0.020	0.770	0.030<
830405	1450	36038	12	4<	6	10.0	0.060	0.025	0.021	0.700	0.030<
830503	1340	36048	1010	5700	3	10.0	0.020<	0.700	0.085	2.080	0.030<
830607	1530	36058	1800	350	6	17.0	0.040	0.115	0.101	1.540	0.030<
830705	1445	36068	790	310	6	18.0	0.040	0.005	0.033	1.320	0.030<
830809	1350	36078	390	650	6	21.5	0.090	0.180	0.500	1.750	0.030<
830913	1400	36088			6	19.0	0.050	0.205	0.143	1.620	0.008
831004	1300	36098			6	18.0	0.036	0.255	0.138	1.440	0.005
831108	1700	36108			6	9.0	0.140	0.150	0.180	1.900	0.003<
831206	1410	36118	1070	720	6	2.0	0.355	0.046	7.300	1.950	

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

152

B.O.W./ SITE: BROWN CREEK  
 SAMPLE POINT: FIRST CONCESSION SOUTH OF WATFORD  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA105

STATION ID: 04-0027-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 55 50.68 LONG: 081 52 06.09

U T M: 17 0429140.0 4753275.0 4

REGION: 01

DISTANCE: 117.157

*INTERIM TEST-NAME:			FCMF FECAL COLIFORM MF CNT /100ML	FSMF FECAL STREPCUS MF CNT /100ML	FWSTRC	FWTEMP WATER TEMP DEG.C	NIUT NICKEL UNF.TOT. MG/L AS NI	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNO2FR NO2-N FIL.REAC MG/L AS N	NNO3FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER			STREAM COND.							
		MAXIMUM	1800	5700		21.5	0.140	0.700	0.500	11.600	2.080	0.008
		ARITH MEAN	638	998		11.5	0.064	0.184	0.109	6.147	1.391	0.006
		GEOM MEAN				7.7		0.094	0.064	4.052	1.296	
		MINIMUM	12	12		1.0	0.036	0.005	0.020	0.100	0.700	0.005
		STD DEV (GEOM *)				7.3		0.193	0.135	3.271	0.505	
		# SAMP IN STATISTICS	8	8		12	8	12	12	12	12	2
		% SAMP (EXCLUDED)	11	11			20					80
*INTERIM TEST-NAME:			PH	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSF RESIDUE FILTERED MG/L	RSP RESIDUE PARTIC. MG/L	RST RESIDUE TOTAL MG/L	SS04UR SULPHATE UNF.REAC MG/L AS S04	TCHF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER										
830104	1415	36007	8.09	0.107	0.125	4<	454.8	8.2	463.0		700AID	4100
830208	1355	36018	7.96	0.171	0.194	4<		10.2		59.000	290	1500
830308	1400	36028	8.52	0.135	0.182	4<		16.6		73.000	2400	3700
830405	1450	36038	8.63	0.108	0.133	4<		11.7		62.500	100	670
830503	1340	36048	7.79	0.340	0.540	4		66.9			9900C	67000
830607	1530	36058	8.01	0.245	0.370	4<		31.6		32.500	14000	46000
830705	1445	36068	7.77	0.152	0.352	4<		93.4		40.000	6000C	53000
830809	1350	36078	7.84	0.122	0.230	16		37.6		60.000	5100C	67000
830913	1400	36088	7.90	0.063	0.254			37.0		59.000		
831004	1300	36098	8.56	0.280	0.348			57.4		76.500		
831108	1700	36108	8.03	0.310	0.395			12.7		168.000		
831206	1410	36118	7.84	0.410	0.525	16		43.9		52.500	17000C	24000
		MAXIMUM	8.63	0.410	0.540	16	454.8	93.4	463.0	168.000	17000	67000
		ARITH MEAN	8.08	0.204	0.304	12	454.8	35.6	463.0	68.300	6166	29663
		GEOM MEAN	8.07	0.177	0.273			26.9		61.975	2477	11667
		MINIMUM	7.77	0.063	0.125	4	454.8	8.2	463.0	32.500	100	670
		STD DEV (GEOM *)	0.31	0.110	0.141			26.5		37.472	6*	6*
		# SAMP IN STATISTICS	12	12	12	3	1	12	1	10	9	9
		% SAMP (EXCLUDED)				66						

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

153

B.O.W./ SITE: BROWN CREEK  
SAMPLE POINT: FIRST CONCESSION SOUTH OF WATFORD  
STATION TYPE: RIVER FLOW GAUGE FED 02GA105

STATION ID: 04-0027-011-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE ERIE  
TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
003  
2980

LAT: 42 55 50.68 LONG: 081 52 06.09

U T M: 17 0429140.0 4753275.0 4

REGION: 01

DISTANCE: 117.157

*=INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HOUR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830104	1415	36007	10.80
830208	1355	36018	13.80
830308	1400	36028	15.50
830405	1450	36038	9.60
830503	1340	36048	198.00
830607	1530	36058	73.00
830705	1445	36068	79.00
830809	1350	36078	57.00
830913	1400	36088	73.00
831004	1300	36098	58.00
831108	1700	36108	13.20
831206	1410	36118	74.00
MAXIMUM		198.00	0.0400
ARITH MEAN		56.24	0.015
GEOM MEAN		36.70	
MINIMUM		9.60	0.005
STD DEV (GEOM *)		53.13	
# SAMP IN STATISTICS		12	7
% SAMP (EXCLUDED)			30

## 1983 WATER QUALITY DATA REGION 1

154

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: 1ST.CONC.NORTH OF ALVINSTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG002

STATION ID: 04-0027-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 49 52.09 LONG: 081 51 05.56

U T M: 17 0430400.0 4742200.0 4

REGION: 01

DISTANCE: 97.041

*=INTERIM	TEST-NAME:	FMSADP	FGPROJ	ASUT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FEUT
					BOD					FECAL	IRON
SAMPLE			PROJECT	ARSENIC	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	
DATE	HOUR	SAMPLE	SUB-PROJ	UNF.TOT.	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	UNF.TOT.
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	MG/L
				AS AS	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	AS FE
830104	0945	36000	0101		0.03	19.500	620.0		12.0	40AID	
830208	0930	36010	0101	0.001 <		18.500	560.0	0.0600		56	0.7000
830308	0925	36020	0101			19.000	590.0	0.0100<		16	1.1100
830405	1030	36030	0101	0.001 <		18.500	590.0	0.0200		4	0.2300
830503	0930	36040	0101	0.001		9.500	310.0	0.0100		1700	52.0000
830607	1100	36050	0101	0.001 <		18.500	565.0	0.0100		520	3.8000
830705	0940	36060	0101	0.001		17.500	560.0	0.0100		80AID	3.400
830809	0820	36070	0101	0.001		20.500	570.0	0.0100		600>	6.2500
830913	0850	36080	0101	0.001		16.000	530.0	0.003			1.300
831004	0900	36090	0101	0.0010		21.500	560.0	0.0740			
831108	0910	36100	0101	0.001 <		29.000	625.0	0.005			0.003 <
831206	0905	36110	0101	0.001		23.500	610.0	0.011		530	0.830
	MAXIMUM	0.30		0.001	0.83	29.000	625.0	0.0740	12.0	1700	52.0000
	ARITH MEAN	0.30		0.001	0.83	19.292	557.5	0.021	12.0	368	7.736
	GEOM MEAN					18.739	549.9				
	MINIMUM	0.30		0.001	0.83	9.500	310.0	0.003	12.0	4	0.2300
	STD DEV (GEOM %)					4.575	82.9				
	# SAMP IN STATISTICS	12		6	1	12	12	10	1	8	9
	% SAMP (EXCLUDED)			40				9		11	10
*=INTERIM	TEST-NAME:	FMSF	FWFLOW	FWSTRC	FWTEMP	NNHTFR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH
		FECAL				NH3-N			K'DAHL N		
SAMPLE		STREPCUS	STREAM		WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	
DATE	HOUR	MF	FLOW	STREAM	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	
YYMMDD	LMT	CNT	M3	COND.	DEG.C	AS N	AS N	AS N	AS N	AS PB	PH
		/100ML	/S								
830104	0945	60AID	1.100	6	1.0	0.060	0.020	4.730	0.660		8.14
830208	0930	164	2.210	6	1.0	0.040	0.019	5.200	0.670	0.030<	7.99
830308	0925	8	1.080	6	8.0	0.150	0.014	2.790	0.720	0.030<	8.19
830405	1030	4<	1.100	6	6.0	0.010	0.014	3.890	0.640	0.030<	8.23
830503	0930	9100	20.200	3	11.0	0.365	0.138	4.460	4.950	0.030<	7.89
830607	1100	210	5.440	6	14.0	0.035	0.060	5.240	1.740	0.030<	8.03
830705	0940	50AID	0.171	6	21.0	0.005	0.015	2.250	0.800	0.030<	8.11
830809	0820	600>	0.246	6	23.0	0.045	0.067	6.200	1.040	0.030<	8.08
830913	0850		0.014	6	18.0	0.025	0.021	1.570	0.600	0.003<	8.16
831004	0900		0.133	6	18.0	0.040	0.010	1.830	0.590	0.003<	7.78
831108	0910		0.182	6	8.0	0.045	0.021	2.800	0.960	0.003<	8.11
831206	0905	590	2.790	6	2.0	0.030	0.025	5.600	0.680	0.003<	7.84

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

155

B.O.W./ SITE: SYDENHAM RIVER  
 SAMPLE POINT: 1ST.CONC.NORTH OF ALVINSTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GG002

STATION ID: 04-0027-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SYDENHAM RIVER

STORET CODE: 02  
 003  
 2980

LAT: 42 49 52.09 LONG: 081 51 05.56 U T M: 17 0430400.0 4742200.0 4 REGION: 01 DISTANCE: 97.041

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS	FWFLOW STREAM FLOW	FWSTRC STREAM COND.	FWTEMP WATER TEMP	NNHTR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	CNT /100ML	M3 /S	DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH
MAXIMUM		9100	20.200		23.0	0.365	0.138	6.200	4.950		8.23
ARITH MEAN		1455	2.889		10.9	0.071	0.035	3.880	1.171		8.05
GEOM MEAN			0.695		7.2	0.039	0.025	3.544	0.913		8.04
MINIMUM		8	0.014		1.0	0.005	0.010	1.570	0.590		7.78
STD DEV (GEOM *)			5.672		7.8	0.100	0.037	1.582	1.232		0.14
# SAMP IN STATISTICS		7	12		12	12	12	12	12		12
% SAMP (EXCLUDED)		22									

*INTERIM TEST-NAME:		PHNOL	PP04FR PO4 PHOSPHOR	PPUT PSEUDOMN AERUG.	PSAMF RESIDUE FILTERED	RSF RESIDUE PARTIC.	RSP RESIDUE TOTAL	RST RESIDUE TOTAL	SS04UR SULPHATE UNF.REAC	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	UNF-REAC UG/L PHENOL	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	CNT /100ML	MG/L	MG/L	MG/L	MG/L AS S04	MF CNT /100ML	MF CNT /100ML
830104	0945	36000		0.030	0.059	4 <	388.7	15.0	403.7		2500	11000
830208	0930	36010	1.000<	0.053	0.084	4 <		21.4		44.500		
830308	0925	36020	1.000<	0.005	0.059	4 <		29.8		59.000		
830405	1030	36030	1.000<	0.008	0.033	4 <		17.1		52.000		
830503	0930	36040	3.000	0.398	1.780	4 <		1156.0		29.500		
830607	1100	36050	1.000	0.061	0.216	4 <		84.5		44.000		
830705	0940	36060	1.500	0.051	0.156	84.6<		84.6		48.0		
830809	0820	36070	1.000	0.050	0.064	84		117.2		48.000		
830913	0850	36080	1.000<	0.019	0.072			33.0		53.500		
831004	0900	36090	2.000	0.060	0.087			28.8		55.500		
831108	0910	36100	1.000<	0.173	0.252			11.9		63.000		
831206	0905	36110		0.018	0.066	4		13.6		58.000		
MAXIMUM		3.000	0.398	1.780	84	388.7	1156.0	403.7	63.000	2500	11000	
ARITH MEAN		1.700	0.077	0.244	44	388.7	134.4	403.7	50.5	2500	11000	
GEOM MEAN			0.039	0.112			41.3		49.6			
MINIMUM		1.000	0.005	0.033	4	388.7	11.9	403.7	29.500	2500	11000	
STD DEV (GEOM *)			0.110	0.488			323.6		9.2			
# SAMP IN STATISTICS		5	12	12	2	1	12	1	11	1	1	
% SAMP (EXCLUDED)		50			77							

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

156

B.O.W./ SITE: SYDENHAM RIVER  
SAMPLE POINT: 1ST.CONC.NORTH OF ALVINSTON  
STATION TYPE: RIVER FLOW GAUGE FED 02GG002

STATION ID: 04-0027-012-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE ERIE  
TERN STREAM: SYDENHAM RIVER

STORET CODE: 02  
003  
2980

LAT: 42 49 52.09 LONG: 081 51 05.56 U T M: 17 0430400.0 4742200.0 4 REGION: 01 DISTANCE: 97.041

*=INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830104	0945	36000	12.30
830208	0930	36010	0.0100
830308	0925	36020	0.0100<
830405	1030	36030	0.0100<
830503	0930	36040	0.0500
830607	1100	36050	0.0200
830705	0940	36060	0.010
830809	0820	36070	0.0200
830913	0850	36080	0.004
831004	0900	36090	0.005
831108	0910	36100	0.001 <W
831206	0905	36110	0.005
MAXIMUM		12.30	0.0500
ARITH MEAN		12.30	0.014 <A
GEOM MEAN			
MINIMUM		12.30	0.001
STD DEV (GEOM *)			
# SAMP IN STATISTICS		1	9
% SAMP (EXCLUDED)			18

## 1983 WATER QUALITY DATA REGION 1

157

B.O.W./ SITE: HICKORY CREEK  
 SAMPLE POINT: AT PLYMPTON TWP.RD.NO.14 DNSTR.OF FOREST  
 STATION TYPE: RIVER

STATION ID: 08-0010-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: HICKORY CREEK

STORET CODE: 02  
 002  
 0100

LAT: 43 06 03.35 LONG: 082 01 55.58

U T M: 17 0416010.0 4772325.0 4

REGION: 01

DISTANCE: 8.529

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	MF	MF
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3						
YYMMDD	LMT		M								
830104	1340	36006	0.30	0101		0.82	31.000	760.0	10.0	80AID	30AID
830208	1320	36017	0.30	0101	249.0	1.63	32.500	700.0	0.0200	80AID	60AID
830308	1325	36027	0.30	0101	224.0	2.02	42.000	670.0	0.0100<	48	8
830405	1415	36037	0.30	0101	202.0	2.03	27.500	600.0	0.0100	4<	4
830503	1315	36047	0.30	0101	141.0	2.44	12.500	469.0	0.0200	7.0	3100
830607	1455	36057	0.30	0101	228.0	1.38	22.000	640.0	0.0100<	550	440
830705	1410	36067	0.30	0101		3.26	39.000	610.0	0.0200	1100	1100
830809	1310	36077	0.30	0101	160.0	2.88	62.500	535.0	0.0100<	810	360
830913	1325	36087	0.30	0101	153.0	4.56	101.000	680.0	0.006	5.5	
831004	1335	36097	0.30	0101	134.0	3.00	64.500	615.0	0.0070	7.0	
831108	1630	36107	0.30	0101	211.0	3.14	77.000	730.0	0.006	7.5	
831206	1325	36117	0.30	0101	201.0	0.92	47.000	690.0	10.0	460	350
		MAXIMUM	0.30		249.0	4.56	101.000	760.0	0.0200	1100	3100
		ARITH MEAN	0.30		190.3	2.34	46.542	641.6	0.013	446	606
		GEOM MEAN			186.3	2.09	40.307	636.4		8.9	130
		MINIMUM	0.30		134.0	0.82	12.500	469.0	0.006	48	4
		STD DEV (GEOM %)			40.3	1.09	25.425	82.3		2.1	10*
		# SAMP IN STATISTICS	12		10	12	12	12	12	8	9
		% SAMP (EXCLUDED)						30		11	
*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN2FR	NN3FR	NNTKUR	PBUT	PH	PP04FR	PPUT
				NH3-N			K'DAHL N				
				TOTAL	N02-N	N03-N	TOTAL	LEAD		P04	PHOSPHOR
				FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		FIL. REAC	UNF. TOT.
				MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
				AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C							
YYMMDD	LMT										
830104	1340	36006	6	1.0	0.030	0.024	8.700	0.670	8.10	0.040	0.068
830208	1320	36017	6	1.0	0.015	0.014	7.400	0.620	0.030<	0.033	0.061
830308	1325	36027	6	11.0	0.015	0.042	5.060	0.690	0.030<	0.009	0.046
830405	1415	36037	6	10.0	0.010	0.028	5.400	0.950	0.030<	0.002	0.044
830503	1315	36047	3	9.0	0.165	0.068	8.800	1.640	0.030<	0.150	0.314
830607	1455	36057	6	16.0	0.070	0.099	12.900	1.040	0.030<	0.061	0.145
830705	1410	36067	6	18.0	0.010	0.260	7.800	1.220	0.030<	0.156	0.244
830809	1310	36077	6	23.5	0.060	0.143	1.320	1.350	0.030<	0.025	0.130
830913	1325	36087	6	19.0	0.315	0.210	0.300	1.800	0.003<	0.075	0.352
831004	1335	36097	6	20.0	0.195	0.025	0.220	1.340	0.003<	0.026	0.150
831108	1630	36107	6	10.0	0.025	0.019	0.940	1.020	0.003	0.028	0.124
831206	1325	36117	6	3.0	0.035	0.034	9.400	0.880	7.89	0.078	0.126

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

158

B.O.W./ SITE: HICKORY CREEK  
 SAMPLE POINT: AT PLYMPTON TWP.RD.NO.14 DNSTR.OF FOREST  
 STATION TYPE: RIVER

STATION ID: 08-0010-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: HICKORY CREEK

STORET CODE: 02  
 002  
 0100

LAT: 43 06 03.35 LONG: 082 01 55.58 U T M: 17 0416010.0 4772325.0 4 REGION: 01 DISTANCE: 8.529

*=INTERIM TEST-NAME:		FNSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	STREAM COND. DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	MG/L AS P	MG/L AS P
MAXIMUM			23.5	0.315	0.260	12.900	1.800	0.003	8.25	0.156	0.352
ARITH MEAN			11.8	0.079	0.080	5.687	1.102	0.003	8.05	0.057	0.150
GEOM MEAN			8.1	0.041	0.051	3.210	1.043		8.05	0.035	0.121
MINIMUM			1.0	0.010	0.014	0.220	0.620	0.003	7.84	0.002	0.044
STD DEV (GEOM *)			7.6	0.096	0.082	4.188	0.379		0.17	0.051	0.102
# SAMP IN STATISTICS			12	12	12	12	12	1	12	12	12
% SAMP (EXCLUDED)								90			
*=INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSF	RSP	RST	TCHF COLIFORM TOTAL	TCHFBK COLIFORM TOTAL MF	TURB	ZNUT	ZINC	
SAMPLE DATE YYMMDD	HR LMT	SAMPLE NUMBER	MF CNT /100ML	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	RESIDUE TOTAL MG/L	MF CNT /100ML	BCKGRD CNT /100ML	TURB'ITY FTU	UNF.TOT. MG/L AS ZN	
830104	1340	36006	4<	498.6	16.4	515.0	5400	17000	19.00		
830208	1320	36017	4<		16.9		5100	11400	20.00	0.0100	
830308	1325	36027	4<		21.9		940C	2900	20.00	0.0100<	
830405	1415	36037	4<		19.6		100	380	9.60	0.0100<	
830503	1315	36047	8		72.8		6200C	50000	128.00	0.0300	
830607	1455	36057	8		45.9		23000	90000	51.00	0.0100<	
830705	1410	36067	52		43.2		4000C	39000	44.00	0.0300	
830809	1310	36077	32		77.5		2900C	36000	102.00	0.0100	
830913	1325	36087			177.9				200.00	0.012	
831004	1335	36097			71.3				70.00	0.006	
831108	1630	36107			63.8				72.00	0.008	
831206	1325	36117	12		27.7		7900	2900	43.00		
MAXIMUM			52	498.6	177.9	515.0	23000	90000	200.00	0.0300	
ARITH MEAN			22	498.6	54.6	515.0	6171	27731	64.88	0.015	
GEOM MEAN					42.0		3186	11637	46.12		
MINIMUM			8	498.6	16.4	515.0	100	380	9.60	0.006	
STD DEV (GEOM *)					45.3		5*	6*	55.59		
# SAMP IN STATISTICS			5	1	12	1	9	9	12	7	
% SAMP (EXCLUDED)			44						30		

## 1983 WATER QUALITY DATA REGION 1

159

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STOREY CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	CCNAUR CYANIDE AVAIL	CCNFUR CYANIDE FREE	CDUT	CLIDUR	COND25	CUUT	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ARSENIC UNF.TOT. MG/L AS AS	UNF.REAC MG/L AS HCN	UNF.REAC MG/L AS HCN	CADMIUM UNF.TOT. MG/L AS CD	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU
830109	1030	41800	0.30	0103								
830110	1310	31310	0.30	0101	277.0	0.001 <		0.001<M		16.500	635.0	0.006
830215	1340	31323	0.30	0101	248.0	0.001 <				39.500	720.0	
830228	1600	41801	0.30	0103					0.0002<			0.004
830302	1400	41802	0.30	0103					0.0002<			0.004
830306	1600	41803	0.30	0103					0.0002<			0.005
830308	1130	41804	0.30	0103					0.0002<			0.006
830309	1245	41805	0.30	0103					0.0005			0.017
830313	1600	41806	0.30	0103					0.0004			0.012
830315	1305	31336	0.30	0101	243.0	0.001 <	0.001<M			19.500	580.0	
830320	1645	41807	0.30	0103					0.0002<			0.005
830327	1700	41808	0.30	0103					0.0002<			0.006
830403	1400	41809	0.30	0103	236.0				0.0002<		557.0	0.003
830410	1330	41810	0.30	0103	324.3						472.0	
	1800	41811	0.30	0103	535.4						479.0	
830411	0730	41812	0.30	0103	295.9				0.0002<		399.0	0.024
	1830	41813	0.30	0103	247.3				0.0002<		423.0	0.014
830412	0830	41814	0.30	0103	206.2				0.0002<		464.0	0.008
	1300	31349	0.30	0101	203.0	0.001 <	0.001<M			14.000	492.0	
	1700	41815	0.30	0103	207.9				0.0002<		489.0	0.006
830415	0900	41816	0.30	0103	247.6				0.0010		500.0	0.025
830418	0930	41817	0.30	0103	223.1				0.0006		536.0	0.011
830424	1900	41818	0.30	0103	227.6				0.0004		530.0	0.010
830428	1830	41819	0.30	0103	207.6				0.0010		503.0	0.013
830501	1900	41820	0.30	0103	221.6				0.0002<		457.0	0.017
830502	0900	41821	0.30	0103	237.8				0.0002<		407.0	0.023
	1730	41822	0.30	0103	205.5				0.0002<		438.0	0.015
830503	0930	41823	0.30	0103	242.6				0.0002<		410.0	0.021
	1830	41824	0.30	0103	209.3				0.0002<		386.0	0.016
830504	0830	41825	0.30	0103	178.0				0.0002<		438.0	0.010
	1630	41826	0.30	0103	186.5				0.0002<		458.0	0.024
830505	0830	41827	0.30	0103	202.3				0.0002<		489.0	0.005
	1700	41828	0.30	0103	208.0				0.0002<		501.0	0.006
830507	1030	41829	0.30	0103	225.8				0.0002<		528.0	0.004
830508	1700	41830	0.30	0103	231.4				0.0002<		542.0	0.005
830510	1320	31362	0.30	0101	233.0	0.001 <	0.001<T			26.500	620.0	
830515	1700	41831	0.30	0103	226.8				0.0003		510.0	0.014
830520	1830	41832	0.30	0103	150.9				0.0002<		415.0	0.024
830521	1200	41833	0.30	0103	154.7				0.0002<		413.0	0.008
	1830	41834	0.30	0103	162.6				0.0002<		442.0	0.007

( C O N T D )



## 1983 WATER QUALITY DATA REGION 1

160

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	ASUT	CCNAUR CYANIDE	CCNFUR CYANIDE	CDUT	CLIDUR	COND25	CUUT
SAMPLE DATE	HOURL LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CACO3	ARSENIC UNF.TOT. MG/L AS AS	AVAIL UNF.REAC MG/L AS HCN	FREE UNF.REAC MG/L AS HCN	CADMIUM UNF.TOT. MG/L AS CD	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU
830522	1930	41835	0.30	0103	204.9				0.0002<		530.0	0.005
830529	1500	41836	0.30	0103	240.4				0.0002<		543.0	0.004
830601	1600	41837	0.30	0103	218.0				0.0002<		515.0	0.005
830605	0930	41838	0.30	0103	231.7				0.0002		555.0	0.004
830606	1300	41839	0.30	0103	228.3				0.0002<		529.0	0.005
830610	1830	41840	0.30	0103	235.9				0.0002<		522.0	0.006
830612	1900	41841	0.30	0103	235.6				0.0003		522.0	0.004
830614	1340	31375	0.30		219.0	0.001 <	0.001<M			16.000	530.0	
830619	1830	41842	0.30	0103	218.8				0.0003		511.0	0.007
830627	1700	41843	0.30	0103	206.1				0.0002<		490.0	0.003
830704	0800	41844	0.30	0103	207.3				0.0002<		481.0	0.003
830710	1600	41845	0.30	0103	212.2				0.0003		490.0	0.004
830712	1315	31388	0.30		208.0	0.001	0.001<T			18.000	505.0	
830717	1930	41846	0.30	0103	206.5				0.0002<		506.0	0.003
830724	1000	41847	0.30	0103	191.5				0.0002<		470.0	0.004
830801	1430	41848	0.30	0103	174.9				0.0002<		414.0	0.003
830807	1030	41849	0.30	0103	196.0				0.0002<		523.0	0.005
830809	1305	31401	0.30	0101	217.0	0.001				17.000	560.0	0.0100
830814	1130	41850	0.30						0.0002<			0.004
830821	1800	41851	0.30	0103	194.1				0.0002<		478.0	0.003
830829	0630	41852	0.30	0103	183.3				0.0002<		443.0	0.014
830905	1900	41853	0.30	0103	176.2				0.0002<		437.0	0.018
830907	1315	31414	0.30	0101	178.0	0.001 <	0.001<M			16.500	455.0	
830911	1600	41854	0.30	0103	172.7				0.0005		399.0	0.012
830918	1930	41855	0.30	0103	169.6				0.0002<		409.0	0.003
830925	1900	41856	0.30	0103	169.6				0.0002<		445.0	0.003
831002	1900	41857	0.30		214.9				0.0002<		506.0	0.004
831009	1730	41859		0103	201.4				0.0002<		89.6	0.003
	1900	41858	0.30	0103	203.7				0.0002<		490.0	0.007
831011	1250	31427	0.30	0101	192.0	0.0010	0.001		0.0003	21.500	500.0	0.0080
831016	1730	41859	0.30	0103	201.4				0.0002<		89.6	0.003
831030	1700	41860	0.30	0103	204.9				0.0002		518.0	0.004
831106	1530	41861	0.30	0103	214.8				0.0002<		542.0	0.003
831113	1600	41862	0.30	0103	212.0						583.0	
831115	1240	31440	0.30	0101	226.0	0.001	0.002			30.000	605.0	
831120	1430	41863	0.30	0103	215.2				0.0002<		641.0	0.004
831128	0830	41864	0.30	0103	246.4				0.0002<		645.0	0.010
831204	1630	41865	0.30	0103	249.2				0.0002<		664.0	0.010
831210	1500	41866	0.30	0103	214.9				0.0004		602.0	0.008
831212	1305	31453	0.30	0101	98.9	0.001 <	0.002<T		0.0002<	28.500	406.0	0.015

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

161

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	CCNAUR CYANIDE	CCNFUR CYANIDE	CDUT	CLIDUR	COND25	CUUT
SAMPLE		SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L	ARSENIC UNF.TOT. MG/L	AVAIL UNF.REAC MG/L	FREE UNF.REAC MG/L	CADMIUM UNF.TOT. MG/L	CHLORIDE UNF.REAC MG/L	CONDUCT. 25C UMHO/CM	COPPER UNF.TOT. MG/L
DATE	HOUR			AS CAC03	AS AS	AS HCN	AS HCN	AS CD	AS CL-	AT 25 C	AS CU
YYMMDD	LMT	SAMPLE NUMBER									
		MAXIMUM	0.30	535.4	0.001	0.002	0.001	0.0010	39.500	720.0	0.025
		ARITH MEAN	0.30	217.0	0.001	0.001<A	0.001<A	0.0004	21.958	491.1	0.009
		GEOM MEAN		212.5		0.001<A			20.914	474.4	0.007
		MINIMUM	0.30	98.9	0.001	0.001	0.001	0.0002	14.000	89.6	0.003
		STD DEV (GEOM *)		50.7		0.000<A			7.632	98.2	0.006
		# SAMP IN STATISTICS	79	70	4	9	1	15	12	70	68
		% SAMP (EXCLUDED)			66			77			
*=INTERIM TEST-NAME:		DO	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWFLOW	FWSTRC	FWTEMP	HGUT	NNHTFR NH3-N	NNOTFR	NNO2FR
SAMPLE		DISOLVED OXYGEN	HF CNT	HF CNT	STREAM FLOW		WATER TEMP	MERCURY UNF.TOT.	TOTAL FIL.REAC	NO2+NO3N FIL.REAC	NO2-N FIL.REAC
DATE	HOUR	MG/L	/100ML	/100ML	H3 /S	COND.	DEG.C	UG/L	AS N	AS N	AS N
YYMMDD	LMT	AS O						AS HG			
830109	1030	41800			14.208			0.05 <		6.000	0.0255
830110	1310	31310		128	15.232	6	2.0	0.02 <	0.035		0.012
830215	1340	31323	12.0	4<	7.258	4	1.0	0.01 <	0.025		0.013
830228	1600	41801			13.440			0.04 <		6.500	0.0360
830302	1400	41802			10.432			0.04 <		6.250	0.0585
830306	1600	41803			8.563			0.01 <		5.250	0.0230
830308	1130	41804			8.320			0.02 <		4.900	0.0480
830309	1245	41805			8.435			0.01		1.190	0.0420
830313	1600	41806			7.142			0.02		4.950	0.0025
830315	1305	31336	10.5	4<	6.234	6	6.0	0.01 <	0.020		0.014
830320	1645	41807		4<	6.925			0.02		4.830	0.0050
830327	1700	41808			8.128			0.01		4.200	0.0040
830403	1400	41809			12.493			0.03 <		6.060	0.0130
830410	1330	41810			45.696			0.03 <		5.000	0.0140
	1800	41811			45.696			0.10		5.600	0.0170
830411	0730	41812			52.864			0.06		6.670	0.0280
	1830	41813			52.864					6.910	0.0300
830412	0830	41814			34.944			0.02		8.650	0.0120
	1300	31349	10.5	136	34.944	6	8.0	0.02	0.040		0.083
	1700	41815			34.944			0.02		8.000	0.0070
830415	0900	41816			41.472			0.03		6.500	0.0205
830418	0930	41817			20.864			0.01		6.000	0.0235
830424	1900	41818			11.699			0.02		5.460	0.0405
830428	1830	41819			7.334			0.04 <		4.720	0.0200

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

162

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

*INTERIM TEST-NAME:		DO	FCMF	FSMF	FMFLOW	FWSTRC	FWTEMP	HGUT	NNHTFR	NNOTFR	NNO2FR
		DISOLVED	FECAL	FECAL	STREAM			MERCURY	NH3-N	NO2+NO3N	NO2-N
		OXYGEN	COLIFORM	STREPCUS	FLOW			UNF.TOT.	TOTAL	FIL.REAC	FIL.REAC
		MG/L	MF	MF	M3	STREAM	WATER	UG/L	MG/L	MG/L	MG/L
		AS O	CNT	CNT	/S	COND.	TEMP	AS HG	AS N	AS N	AS N
DATE	TIME	SAMPLE									
YYMMDD	LMT	NUMBER									
830501	1900	41820			34.048			0.04 <		6.900	0.0165
830502	0900	41821			62.208			0.06		0.565	0.0185
	1730	41822			62.208			0.03		0.655	0.0155
830503	0930	41823			97.920			0.09		7.320	0.0220
	1830	41824			97.920			0.10		6.820	0.0255
830504	0830	41825			58.368			0.04		7.700	0.0270
	1630	41826			58.368			0.02		6.750	0.0260
830505	0830	41827			36.736			0.02		6.700	0.0085
	1700	41828			36.736			0.02		6.510	0.0060
830507	1030	41829			18.432						
830508	1700	41830			16.384						
830510	1320	31362	10.5	20AID	13.824	6	11.0	0.02 <	0.015		0.023
830515	1700	41831			10.125			0.02 <		4.500	0.0025
830520	1830	41832			53.120			0.06		7.500	0.2080
830521	1200	41833			35.840			0.08		7.550	0.2800
	1830	41834			35.840			0.02		8.250	0.2500
830522	1930	41835			27.520			0.02		9.500	0.2220
830529	1500	41836			9.472			0.04		5.100	0.0340
830601	1600	41837			18.688			0.01		5.600	0.0180
830605	0930	41838			14.976			0.01		6.900	0.0105
830606	1300	41839			23.040			0.02 <		5.900	0.0090
830610	1830	41840			13.696			0.03 <		5.900	0.0350
830612	1900	41841			8.730			0.03 <		5.950	0.0400
830614	1340	31375	9.0	8	6.400	6	24.5	0.02 <	0.045		0.019
830619	1830	41842			3.430			0.02 <		4.110	0.0390
830627	1700	41843			1.472			0.02		2.770	0.0475
830704	0800	41844			1.779			0.01		1.880	0.0190
830710	1600	41845			1.157			0.03 <		2.100	0.0530
830712	1315	31388	8.5	24	0.860	6	24.5	0.03 <	0.065		0.013
830717	1930	41846			0.806			0.03 <		4.900	0.0910
830724	1000	41847			0.691			0.02 <		2.180	0.0090
830801	1430	41848			15.232			0.02 <		0.960	0.0530
830807	1030	41849			6.093			0.02 <		10.040	0.0460
830809	1305	31401	9.0	192	3.174	6	25.5	0.01 <	0.045		0.031
830814	1130	41850			2.918			0.01			
830821	1800	41851			0.960			0.01		3.050	0.0395
830829	0630	41852			0.960					1.470	0.0055
830905	1900	41853			0.768			0.02		0.930	0.0080
830907	1315	31414	8.5	40	0.704	6	23.0	0.01 <	0.055		0.013
830911	1600	41854			0.640			0.01		0.650	0.0070

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

163

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

*INTERIM TEST-NAME:		DO	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWFLOW STREAM FLOW	FWSTRC STREAM COND.	FWTEMP WATER TEMP	HGUT MERCURY UNF.TOT.	NNHTFR NH3-N TOTAL	NNOTFR NO2+NO3N FIL.REAC	NNO2FR NO2-N FIL.REAC
SAMPLE DATE	HR	SAMPLE NUMBER	MG/L OXYGEN AS O	CNT MF /100ML	CNT MF /100ML	M3 /S	DEG.C	UG/L AS HG	MG/L AS N	MG/L AS N	MG/L AS N
YYMMDD	LHT										
830918	1930	41855				0.700		0.01 <		0.610	0.0090
830925	1900	41856				6.515		0.02		3.360	0.0175
831002	1900	41857				1.370		0.01		12.900	0.0160
831009	1730	41859				1.101		0.01		2.340	0.0140
	1900	41858				1.101		0.01 <		3.720	0.0115
831011	1250	31427	11.0			1.078	6	13.0	0.010	0.085	0.056
831016	1730	41859				1.434		0.01		2.340	0.0140
831030	1700	41860				2.112		0.01 <		2.780	0.0110
831106	1530	41861				4.506		0.01		2.650	0.0080
831113	1600	41862				5.850		0.01 <		4.590	0.0165
831115	1240	31440	15.5			5.491	6	3.5	0.01 <	0.035	0.021
831120	1430	41863				12.710		0.01 <		9.900	0.0580
831128	0830	41864				7.194		0.01 <		7.610	0.0280
831204	1630	41865				9.178		0.01		9.170	0.0255
831210	1500	41866				20.480		0.01		5.100	0.0670
831212	1305	31453	15.5	530	332	37.120	9	3.0	0.02	0.050	0.036
		MAXIMUM	15.5	530	332	97.920		25.5	0.10	0.085	12.900
		ARITH MEAN	11.0	123	108	19.004		12.1	0.03	0.043	5.205
		GEOM MEAN	10.7			8.839		7.8		0.039	4.256
		MINIMUM	8.5	8	4	0.640		1.0	0.01	0.015	0.565
		STD DEV (GEOM %)	2.4			21.617		9.7		0.020	2.658
		# SAMP IN STATISTICS	12	8	7	80		12	42	12	65
		% SAMP (EXCLUDED)		20	30				44		77

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

164

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66			LONG: 081 48 52.98			U T M: 17 0433800.0 4782350.0 4			REGION: 01		DISTANCE: 12.069	
*=INTERIM		TEST-NAME:	NNO3FR	NNTKUR	PBUT	PH	PP04FR	PPUT	PSAMF	P1PCBT	P3245T	RSF
			NO3-N	K'DAHL N	LEAD		PO4	PHOSPHOR	PSEUDOMN			
SAMPLE			FIL.REAC	TOTAL	UNF.TOT.		FIL.REAC	UNF.TOT.	AERUG.	PCB		RESIDUE
DATE	HR	SAMPLE	MG/L	MG/L	MG/L		MG/L	MG/L	MF	TOTAL	2,4,5-T	FILTERED
YYMMDD	LMT	NUMBER	AS N	AS N	AS PB	PH	AS P	AS P	CNT	NG/L	NG/L	MG/L
830109	1030	41800	5.970		0.003	8.21	0.0220	0.058				
830110	1310	31310	5.900	0.550		8.19	0.025	0.042	4<			409.2
830215	1340	31323	5.900	0.850		8.17	0.018	0.072	4<			476.4
830228	1600	41801	6.460		0.003	8.19	0.0190	0.043		20<W		
830302	1400	41802	6.190		0.003<	8.16	0.0180	0.043		20<W		
830306	1600	41803	5.230		0.003<	8.13	0.0140	0.061				
830308	1130	41804	4.850		0.003<	8.20	0.0140	0.021				
830309	1245	41805	1.150		0.006	8.12	0.0150	0.053				
830313	1600	41806	4.950		0.004	8.15	0.0140	0.037				
830315	1305	31336	4.390	0.670		8.28	0.006	0.036	4<			346.0
830320	1645	41807	4.820		0.003	7.74	0.0740	0.137				
830327	1700	41808	4.200		0.004	8.03	0.0320	0.153				
830403	1400	41809	6.050		0.003<	8.36	0.0190	0.059				
830410	1330	41810	4.990			7.60	0.0610	0.164				
	1800	41811	5.590			7.65	0.0860	0.186				
830411	0730	41812	6.640		0.010	8.16	0.1300			20<W	50<W	
	1830	41813	6.880		0.004	7.68	0.1200	0.280				
830412	0830	41814	8.640		0.003	7.73	0.0790	0.327				
	1300	31349	7.700	1.620		8.10	0.064	0.298	4<			298.9
	1700	41815	7.990		0.003<	7.87	0.0680	0.245				
830415	0900	41816	6.480		0.011	7.65	0.0940	0.315				
830418	0930	41817	5.580		0.003<	8.20	0.0305	0.107				
830424	1900	41818	5.420		0.003<	8.14	0.0100	0.070				
830428	1830	41819	4.700			8.04		0.050				
830501	1900	41820	6.890		0.006	7.68	0.0815	1.350				
830502	0900	41821	0.547		0.011	7.63	0.0880	0.675		20<W	50<W	
	1730	41822	0.640		0.008	7.69	0.0800	0.420				
830503	0930	41823	7.300		0.007	7.50	0.0980	1.190				
	1830	41824	6.800		0.004	7.48	0.1160	1.690				
830504	0830	41825	7.680		0.003<	7.70	0.0080	0.550				
	1630	41826	6.730		0.003<	7.75	0.0850	0.370				
830505	0830	41827	6.690		0.003<	8.08	0.0705					
	1700	41828	6.500		0.003	8.10	0.0600					
830507	1030	41829			0.003<	8.12		0.051				
830508	1700	41830			0.003<	8.16		0.037				
830510	1320	31362	4.130	0.650		8.22	0.012	0.032	4<			382.2
830515	1700	41831	4.500		0.005	8.17	0.0140	0.047				
830520	1830	41832	7.300		0.009	7.73	0.1080	0.465				
830521	1200	41833	7.270		0.003<	7.66	0.1020	0.445				
	1830	41834	8.000		0.003<	7.80	0.1000	0.325				

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

165

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98 U T M: 17 0433800.0 4782350.0 4 REGION: 01 DISTANCE: 12.069

*INTERIM TEST-NAME:		NNO3FR	NNTKUR	PBUT	PH	PP04FR	PPUT	PSAMF	P1PCBT	P3245T	RSF
		NO3-N	K'DAHL N	LEAD		P04	PHOSPHOR	PSEUDOMN			
		FIL.REAC	TOTAL	UNF.TOT.		FIL.REAC	UNF.TOT.	AERUG.			
		MG/L	MG/L	MG/L		MG/L	MG/L	MF	PCB	2,4,5-T	RESIDUE
		AS N	AS N	AS PB	PH	AS P	AS P	CNT	TOTAL	MG/L	FILTERED
SAMPLE								/100ML	NG/L	NG/L	MG/L
DATE	HOUR	SAMPLE									
YYMMDD	LMT	NUMBER									
830522	1930	41835	9.280		0.003<	8.04	0.0580	0.193			
830529	1500	41836	5.070		0.003<	8.23	0.0160	0.056			
830601	1600	41837	5.580		0.007	8.06	0.0340	0.077			
830605	0930	41838	6.890		0.003<	8.10	0.0355	0.059			
830606	1300	41839	5.890		0.003	8.12	0.0330	0.125			
830610	1830	41840	5.870		0.003<	8.23	0.0175	0.077			
830612	1900	41841	5.910		0.003<	8.24	0.0160	0.075			
830614	1340	31375	5.500	0.710		8.24	0.006	0.036	4<		339.1
830619	1830	41842	4.070		0.003<	8.16	0.0100	0.057			
830627	1700	41843	2.720		0.003<	8.03	0.0075	0.064			
830704	0800	41844	1.860		0.003<	8.11	0.0080	0.067			
830710	1600	41845	2.050		0.003<	8.15	0.0065	0.057			
830712	1315	31388	1.140	0.630		8.15	0.006	0.040	4<		352.8
830717	1930	41846	4.810		0.003<	8.10	0.0065	0.035			
830724	1000	41847	2.170		0.003<	8.00	0.0120	0.058			
830801	1430	41848	0.907		0.003<	7.54	0.0150	0.053			
830807	1030	41849	9.990		0.003<	8.22	0.0490	0.098			
830809	1305	31401	8.900	1.200		8.20	0.032	0.116	4		374.3
830814	1130	41850			0.003<						
830821	1800	41851	3.010		0.003<	8.22	0.0090	0.042			
830829	0630	41852	1.460		0.003	8.15	0.0330	0.033			
830905	1900	41853	0.920		0.003	8.23	0.0040	0.031			
830907	1315	31414	0.930	0.490		8.05	0.008	0.049	4		318.3
830911	1600	41854	0.643		0.008	8.10	0.0050	0.033			
830918	1930	41855	0.601		0.003<	8.08	0.0040	0.039			
830925	1900	41856	3.340		0.003<	8.21	0.0285	0.125			
831002	1900	41857			0.003<	8.35	0.0160	0.092			
831009	1730	41859	2.330		0.003<	8.20	0.0070	0.033			
	1900	41858	3.710		0.005	8.19	0.0060	0.046			
831011	1250	31427	4.190	1.160	0.003<	7.98	0.022	0.082			315.0
831016	1730	41859	2.330		0.003<	8.20	0.0070	0.033			
831030	1700	41860	2.770		0.003<	8.23	0.0060	0.037			
831106	1530	41861	2.640		0.003<	8.22	0.0045	0.036			
831113	1600	41862	4.570			8.47	0.0075	0.043			
831115	1240	31440	4.980	0.840		8.20	0.010	0.054			408.0
831120	1430	41863	9.840		0.021	8.12	0.1080	0.210			
831128	0830	41864	7.580		0.003<	8.28	0.0395	0.078			
831204	1630	41865	9.140		0.005	8.31	0.0470	0.077			
831210	1500	41866	5.030		0.003<	8.31	0.0575	0.105			
831212	1305	31453	7.600	3.220	0.003<	7.81	0.108	0.550	108		321.1

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

166

B.O.M./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

*INTERIM TEST-NAME:		NO3FR	NNTKUR	PBUT	PH	PP04FR	PPUT	PSAMF	P1PCBT	P3245T	RSF
		NO3-N	K'DAHL N	LEAD		P04	PHOSPHOR	PSEUDOMN			
		FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	AERUG.	PCB	2,4,5-T	RESIDUE
DATE	HOUR	MG/L	MG/L	MG/L		MG/L	MG/L	MF	TOTAL	MG/L	FILTERED
YYMMDD	LMT	AS N	AS N	AS PB	PH	AS P	AS P	CNT	NG/L	NG/L	MG/L
SAMPLE											
NUMBER											
MAXIMUM		9.990	3.220	0.021	8.47	0.1300	1.690	108	20	50	476.4
ARITH MEAN		5.051	1.049	0.006	8.05	0.039	0.180	39	20<A	50<A	361.8
GEOM MEAN		4.166	0.897		8.05	0.024	0.094		20<A	50<A	358.7
MINIMUM		0.547	0.490	0.003	7.48	0.0040	0.021	4	20	50	298.9
STD DEV (GEOM *)		2.449	0.758		0.23	0.036	0.291		0<A	0<A	51.0
# SAMP IN STATISTICS		76	12	26	79	76	76	3	4	2	12
% SAMP (EXCLUDED)				60				70			
*INTERIM TEST-NAME:		RSP	TCMF	TCMFBK	TURB	X3PCPH	ZNUT				
			COLIFORM	COLIFORM							
			TOTAL	TOTAL MF							
DATE	HOUR	RESIDUE	MF	BCKGRD		PENTACHL	ZINC				
YYMMDD	LMT	PARTIC.	CNT	CNT	TURB'ITY	PHENOL	UNF.TOT.				
		MG/L	/100ML	/100ML	FTU	NG/L	MG/L				
							AS ZN				
830109	1030	41800	32.900								
830110	1310	31310	14.700	340	2000	13.90					
830215	1340	31323	58.200	40	560	3.70					
830228	1600	41801	50.000								
830302	1400	41802	25.300								
830306	1600	41803	40.400								
830308	1130	41804	45.200								
830309	1245	41805	41.300								
830313	1600	41806	33.400								
830315	1305	31336	16.000	30AID	1100	14.70					
830320	1645	41807	45.100								
830327	1700	41808	56.400								
830403	1400	41809	32.100								
830410	1330	41810	743.000								
830411	0730	41811	1123.00								
830412	0830	41812	781.000								
830412	1300	41813	395.000								
830412	1700	41814	188.000								
830415	0900	31349	145.800	9300AID	43000	129.00					
830418	0930	41815	138.000								
830424	1900	41816	427.000								
830428	1830	41817	53.000								
		41818	51.400								
		41819	23.600								

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

167

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98 U T M: 17 0433800.0 4782350.0 4 REGION: 01 DISTANCE: 12.069

*INTERIM TEST-NAME:		RSP	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	X3PCPH PENTACHL PHENOL NG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER RESIDUE PARTIC. MG/L					
830501	1900	41820	493.000				
830502	0900	41821	809.000				
	1730	41822	485.000			50<W	
830503	0930	41823	1294.00				
	1830	41824	1184.00				
830504	0830	41825	304.000				
	1630	41826	178.000				
830505	0830	41827	113.000				
	1700	41828	112.000				
830507	1030	41829	52.800				
830508	1700	41830	78.600				
830510	1320	31362	10.400	230C	6000	9.20	
830515	1700	41831	34.800				
830520	1830	41832	602.000				
830521	1200	41833	257.000				
	1830	41834	190.000				
830522	1930	41835	111.000				
830529	1500	41836	42.200				
830601	1600	41837	84.300				
830605	0930	41838	76.200				
830606	1300	41839	80.400				
830610	1830	41840	36.900				
830612	1900	41841	44.200				
830614	1340	31375	20.200	180C	3030	22.00	
830619	1830	41842	27.000				
830627	1700	41843	36.100				
830704	0800	41844	50.000				
830710	1600	41845	30.800				
830712	1315	31388	21.800	100C	4600	24.00	
830717	1930	41846	32.300				
830724	1000	41847	37.400				
830801	1430	41848	63.200				
830807	1030	41849	56.400				
830809	1305	31401	27.600	1900	39000	33.00	0.0100<
830814	1130	41850	30.900				
830829	0630	41852	22.600				
830905	1900	41853	22.200				
830907	1315	31414	12.000	2300	23000	13.10	
830911	1600	41854	10.100				
830918	1930	41855	21.200				

( CONTD )



## 1983 WATER QUALITY DATA REGION 1

168

B.O.W./ SITE: THE CUT AUSABLE RIVER  
 SAMPLE POINT: AT LAMPTON CO.ROAD NO.18  
 STATION TYPE: RIVER

STATION ID: 08-0021-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER CUT

STORET CODE: 02  
 002  
 0180

LAT: 43 11 34.66 LONG: 081 48 52.98

U T M: 17 0433800.0 4782350.0 4

REGION: 01

DISTANCE: 12.069

*=-INTERIM TEST-NAME:		RSP	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	X3PCPH PENTACHL PHENOL NG/L	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	RESIDUE PARTIC. MG/L				
830925	1900	41856	38.900				
831002	1900	41857	26.800				
831009	1730	41859	16.200				
	1900	41858	17.700				
831011	1250	31427	37.300		47.00		0.003
831016	1730	41859	16.200				
831030	1700	41860	17.800				
831106	1530	41861	23.800				
831113	1600	41862	17.100				
831115	1240	31440	15.200		24.00		
831120	1430	41863	52.500				
831128	0830	41864	26.600				
831204	1630	41865	25.400				
831210	1500	41866	39.500				
831212	1305	31453	326.200	3500	26000	275.00	0.001 <
MAXIMUM		1294.00	9300	43000	275.00	50	0.003
ARITH MEAN		157.615	1792	14829	50.72	50<A	0.003
GEOM MEAN		61.818	435	6330	25.13	50<A	
MINIMUM		10.100	30	560	3.70	50	0.003
STD DEV (GEOM *)		275.235	7*	5*	78.05	0<A	
# SAMP IN STATISTICS		79	10	10	12	2	1
% SAMP (EXCLUDED)							66

## 169

STATION ID: 08-0022-002-02

STORET CODE: 02  
002  
0180

**DISTANCE: 10.300**

*INTERIM		TEST-NAME:		FMSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR PO4 FIL.REAC	PPUT UNF.TOT. MG/L
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB		PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
830110	1250	31309	6	3.0	0.050	0.021	6.400	0.610	0.030<	8.24	0.024	0.046	
830215	1310	31322	4	0.5	0.025	0.009	6.300	0.520	0.030<	8.12	0.021	0.038	
830315	1240	31335	6	5.5	0.015	0.020	3.530	0.610	0.030<	8.27	0.022	0.043	
830412	1240	31348	6	9.0	0.030	0.024	4.800	0.750	0.030<	8.43	0.014	0.047	
830510	1255	31361	6	10.5	0.050	0.029	5.400	0.750	0.030<	8.23	0.020	0.076	
830614	1310	31374	6	23.5	0.035	0.088	3.400	0.810	0.030<	8.35	0.045	0.064	
830712	1250	31387	6	22.5	0.030	0.016	1.270	0.770	0.030<	8.20	0.058	0.180	
830809	1245	31400	6	21.0	0.005	0.008	0.520	1.280	0.030<	8.00	0.061	0.530	
830907	1255	31413	6	20.0	0.062	0.031	0.490	1.040	0.003<	7.90	0.215	0.310	
831011	1230	31426	6	13.0	0.030	0.008	3.590	0.590	0.003<	8.11	0.007	0.035	
831115	1220	31439	6	3.5	0.035	0.066	13.000	0.890	0.003<	7.99		0.149	
831212	1245	31452	3	2.0	0.050	0.025	8.700	0.770	0.008	8.03	0.094	0.380	

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

170

B.O.W./ SITE: DECKER CREEK  
 SAMPLE POINT: NEAR BRICK YARD, THEDFORD  
 STATION TYPE: RIVER

STATION ID: 08-0022-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 10 36.86 LONG: 081 51 19.48

U T M: 17 0430475.0 4780600.0 4

REGION: 01

DISTANCE: 10.300

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	P04 MG/L AS P	PHOSPHOR MG/L AS P
MAXIMUM				23.5	0.062	0.088	13.000	1.280	0.008	8.43	0.215	0.530
ARITH MEAN				11.2	0.035	0.029	4.783	0.782	0.008	8.16	0.062	0.158
GEOM MEAN				7.1	0.030	0.022	3.297	0.759		8.15	0.037	0.100
MINIMUM				0.5	0.005	0.008	0.490	0.520	0.008	7.90	0.007	0.035
STD DEV (GEOM *)				8.6	0.016	0.024	3.593	0.212		0.16	0.068	0.164
# SAMP IN STATISTICS				12	12	12	12	12	1	12	11	12
% SAMP (EXCLUDED)									91			

*=INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	MF CNT /100ML	MF CNT /100ML	MF CNT /100ML	TURB'ITY FTU	UNF.TOT. MG/L AS ZN
830110	1250	31309	4<	14.6	5100	16000	13.30
830215	1310	31322	4	31.8	2500	4900	12.40
830315	1240	31335	4<	6.1	120	460	6.40
830412	1240	31348	4<	14.7	5000	17000	13.40
830510	1255	31361	4<	38.2	3300	9600	4.30
830614	1310	31374	4<	6.9	2300	26400	5.40
830712	1250	31387	4<	38.1	2200C	54000	15.20
830809	1245	31400	240	35.6	20200>	110000	30.00
830907	1255	31413		39.8			45.00
831011	1230	31426		22.0			27.00
831115	1220	31439		1.5			12.50
831212	1245	31452	8	261.4	18000	44000	180.00
MAXIMUM			240	261.4	18000	110000	180.00
ARITH MEAN			84	42.6	4815	31373	30.41
GEOM MEAN				20.4		15092	16.51
MINIMUM			4	1.5	120	460	4.30
STD DEV (GEOM *)				70.3		5*	48.56
# SAMP IN STATISTICS			3	12	8	9	12
% SAMP (EXCLUDED)			66		11		41

## 1983 WATER QUALITY DATA REGION 1

171

B.O.W./ SITE: HENSALL CREEK  
 SAMPLE POINT: AT CONCESSION ROAD 2, WEST OF HENSALL  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF105

STATION ID: 08-0022-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 25 40.39 LONG: 081 31 22.44 U T M: 17 0457675.0 4808250.0 4 REGION: 01 DISTANCE: 139.204

*=INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISSOLVED	FECAL	FECAL
					TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS
					MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MF
					AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	CNT	CNT
											/100ML	/100ML
SAMPLE DATE	YMMDD	HHMM	SS	DEPTH	PROJECT							
YMMDD	LMT	NUMBER	M	SUB-PROJ CODE								
830110	1105	31305	0.30	0101	276.0	0.94	21.000	630.0	0.0100<	11.0	276	600>
830215	1100	31318	0.30	0101	254.0	0.73	17.500	600.0	0.0100<	12.0	50AID	10AID
830315	1100	31331	0.30	0101	266.0	1.00	23.500	615.0	0.0100<	11.0	148	16
830412	1100	31344	0.30	0101	261.0	0.78	16.000	600.0	0.0100	12.5	32	16
830510	1120	31357	0.30	0101	230.0	0.51	15.000	560.0	0.0100<	14.0	4	4<
830614	1110	31370	0.30	0101	231.0	1.34	16.500	555.0	0.0100	15.0	96	16
830712	1100	31383	0.30	0101	209.0	1.27	15.500	494.0	0.0100	13.5	232	204
830809	1055	31396	0.30	0101	227.0	1.14	20.000	530.0	0.0200	12.5	600>	600>
830907	1100	31409	0.30	0101	237.0	1.49	18.000	550.0	0.021	11.0		
831011	1045	31422	0.30	0101	265.0	0.92	21.000	610.0	0.0020	15.5		
831115	1035	31435	0.30	0101	288.0	1.01	22.500	675.0	0.002	16.0		
831212	1100	31448	0.30	0101	207.0	3.15	18.500	535.0	0.005	13.5	480	4400
MAXIMUM			0.30		288.0	3.15	23.500	675.0	0.021	16.0	480	4400
ARITH MEAN			0.30		245.9	1.19	18.750	579.5	0.010	13.1	165	777
GEOM MEAN					244.6	1.07	18.557	577.5		13.0		
MINIMUM			0.30		207.0	0.51	15.000	494.0	0.0020	11.0	4	10
STD DEV (GEOM *)					26.2	0.67	2.824	50.7		1.8		
# SAMP IN STATISTICS			12		12	12	12	12	8	12	8	6
% SAMP (EXCLUDED)									33		11	33
*=INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
					NH3-N			K'DAHL N				
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04	PHOSPHOR
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
830110	1105	31305	8	3.0	0.015	0.016	6.600	0.510	0.030<	8.16	0.027	0.042
830215	1100	31318	6	2.0	0.015	0.019	7.300	0.610	0.030<	8.17	0.016	0.031
830315	1100	31331	8	4.0	0.010	0.027	5.500	0.670	0.030<	8.29	0.064	0.076
830412	1100	31344	6	8.0	0.035	0.025	7.800	0.560	0.030<	8.28	0.020	0.040
830510	1120	31357	8	7.5	0.015	0.024	7.200	0.420	0.030<	8.02	0.004	0.012
830614	1110	31370	8	19.5	0.025	0.061	6.200	0.660	0.030<	8.15	0.012	0.020
830712	1100	31383	8	22.0	0.055	0.030	3.600	0.520	0.030<	8.21	0.029	0.037
830809	1055	31396	8	20.0	0.040	0.030	3.400	0.650	0.030<	8.37	0.032	0.055
830907	1100	31409	8	19.0	0.030	0.105	3.140	0.730	0.003<	8.18	0.092	0.125
831011	1045	31422	8	11.5	0.015	0.009	4.790	0.570	0.003<	8.06	0.018	0.019
831115	1035	31435	8	4.0	0.010	0.013	7.190	0.520	0.003<	8.05	0.010	0.013
831212	1100	31448	3 9	1.5	0.065	0.029	8.500	0.780	0.009	7.74	0.095	0.395

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

172

B.O.W./ SITE: HENSALL CREEK  
 SAMPLE POINT: AT CONCESSION ROAD 2, WEST OF HENSALL  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF105

STATION ID: 08-0022-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 25 40.39 LONG: 081 31 22.44 U T M: 17 0457675.0 4808250.0 4 REGION: 01 DISTANCE: 139.204

*=INTERIM	TEST-NAME:	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	MG/L AS PB	PH	MG/L AS P	MG/L AS P
	MAXIMUM		22.0	0.065	0.105	8.500	0.780	0.009	8.37	0.095	0.395
	ARITH MEAN		10.2	0.027	0.032	5.935	0.600	0.009	8.14	0.035	0.072
	GEOM MEAN		7.1	0.023	0.026	5.641	0.592		8.14	0.024	0.041
	MINIMUM		1.5	0.010	0.009	3.140	0.420	0.009	7.74	0.004	0.012
	STD DEV (GEOM *)		7.9	0.018	0.026	1.829	0.103		0.16	0.031	0.107
	# SAMP IN STATISTICS		12	12	12	12	12	1	12	12	12
	% SAMP (EXCLUDED)							91			

*=INTERIM	TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT.
SAMPLE DATE HOUR YYMMDD LMT	SAMPLE NUMBER	MF CNT /100ML	MG/L	MF CNT /100ML	CNT /100ML		MG/L AS ZN
830110 1105	31305	8	5.3	3400	6600	4.30	0.0200
830215 1100	31318	4<	6.9	220	1850	1.61	0.0100
830315 1100	31331	4<	1.1	280	2700	1.55	0.0100<
830412 1100	31344	4<	8.5	1200	10600	2.90	0.0100<
830510 1120	31357	4<	3.4	210	2200	1.84	0.0100<
830614 1110	31370	4<	2.8	440C	2580	0.94	0.0100<
830712 1100	31383	4	3.5	1500C	39000	2.50	0.0100<
830809 1055	31396	148	2.7	6400C	84000	2.20	0.0100<
830907 1100	31409		2.6			2.20	0.001
831011 1045	31422		3.8			2.10	0.001
831115 1035	31435		1.7			1.80	0.002
831212 1100	31448	24	207.8	4500	1800	115.00	0.028
	MAXIMUM	148	207.8	6400	84000	115.00	0.028
	ARITH MEAN	46	20.8	2017	16814	11.58	0.010
	GEOM MEAN		4.7	1000	6100	2.85	
	MINIMUM	4	1.1	210	1800	0.94	0.001
	STD DEV (GEOM *)		58.9	4*	4*	32.58	
	# SAMP IN STATISTICS	4	12	9	9	12	6
	% SAMP (EXCLUDED)	55					50

## 1983 WATER QUALITY DATA REGION 1

173

B.O.W./ SITE: LITTLE AUSABLE RIVER  
 SAMPLE POINT: AT BRIDGE, TWP LINE WEST OF LUCAN  
 STATION TYPE: RIVER

STATION ID: 08-0022-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 10 50.08 LONG: 081 26 52.37

U T M: 17 0463600.0 4780750.0 4

REGION: 01

DISTANCE: 109.915

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FEUT
					BOD					FECAL	
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	IRON
					TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	UNF.TOT.
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	MG/L
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	AS FE
SAMPLE	DATE	TIME	DEPTH	PROJECT	ALK						
YMMDD	HMT	NUMBER	M	SUB-PROJ	TOTAL						
				CODE	AS CAC03						
830110	1415	31312	0.30	0101	259.0	0.64	19.000	610.0	0.0100<	284	0.1000
830215	1435	31325	0.30	0101	238.0	1.15	21.000	590.0	0.0100	8	0.0900
830315	1420	31338	0.30	0101	228.0	1.33	20.000	565.0	0.0100<	4<	0.0800
830412	1400	31351	0.30	0101	224.0	0.93	16.000	560.0	0.0100	16	0.4900
830510	1420	31364	0.30	0101	216.0	0.89	16.000	540.0	0.0100<	12	0.1400
830614	1445	31377	0.30	0101	189.0	0.82	17.500	495.0	0.0100	8	0.0900
830712	1425	31390	0.30	0101	154.0	1.17	22.000	424.0	0.0100	72	0.0800
830809	1420	31403	0.30	0101	240.0	0.70	19.000	580.0	0.0100	228	0.0900
830907	1425	31416	0.30	0101	127.0	1.08	14.500	309.0	0.005		
831011	1400	31429	0.30	0101	199.0	1.22	23.000	474.0			
831115	1340	31442	0.30	0101	263.0	1.79	37.500	670.0	0.006		0.001 <
831212	1325	31455	0.30	0101	189.0	1.88	25.000	540.0	0.004	820	1.100
MAXIMUM		0.30			263.0	1.88	37.500	670.0	0.0100	820	1.100
ARITH MEAN		0.30			210.5	1.13	20.875	529.7	0.008	181	0.251
GEOM MEAN					206.4	1.08	20.221	520.6			
MINIMUM		0.30			127.0	0.64	14.500	309.0	0.004	8	0.0800
STD DEV (GEOM #)					41.0	0.39	6.079	94.8			
# SAMP IN STATISTICS		12			12	12	12	12	8	8	9
% SAMP (EXCLUDED)								27	12	11	10

*INTERIM TEST-NAME:		FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL
		FECAL			NH3-N			K'DAHL N			
		STREPCUS			TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PHENOLS
		MF			FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF.REAC
		CNT			MG/L	MG/L	MG/L	MG/L	MG/L		UG/L
		/100ML			AS N	AS N	AS N	AS N	AS PB	PH	PHENOL
SAMPLE	DATE	TIME	DEPTH	PROJECT	WATER						
YMMDD	HMT	NUMBER	M	SUB-PROJ	TEMP						
				CODE	DEG.C						
830110	1415	31312	144	8	3.0	0.020	0.013	6.900	0.610	8.14	1.000<
830215	1435	31325	600>	8	1.5	0.090	0.015	7.500	0.710	8.20	1.000<
830315	1420	31338	4<	8	5.5	0.005	0.019	6.400	0.570	8.22	1.000<
830412	1400	31351	172	6	9.0	0.030	0.020	8.100	0.610	8.27	1.000<
830510	1420	31364	4<	6	11.0	0.010	0.017	6.880	0.500	8.16	1.000<
830614	1445	31377	4<	8	24.5	0.035	0.050	6.500	0.570	8.18	1.000<
830712	1425	31390	36	8	27.0	0.040	0.022	2.800	0.640	8.38	1.500
830809	1420	31403	64	8	24.0	0.035	0.022	6.200	0.700	8.30	1.000<
830907	1425	31416		7	24.5	0.030	0.001	0.010<	0.420	8.56	1.000<
831011	1400	31429		7	13.5	0.030	0.005	0.280	0.380	8.13	1.000<
831115	1340	31442		8	4.0	0.300	0.043	5.410	1.140	8.17	4.500
831212	1325	31455	1060	3 9	4.0	0.065	0.021	9.300	1.180	7.89	1.500

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

174

B.O.W./ SITE: LITTLE AUSABLE RIVER  
 SAMPLE POINT: AT BRIDGE, TWP LINE WEST OF LUCAN  
 STATION TYPE: RIVER

STATION ID: 08-0022-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 10 50.08 LONG: 081 26 52.37 U T M: 17 0463600.0 4780750.0 4 REGION: 01 DISTANCE: 109.915

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PHNOL PHENOLS
SAMPLE DATE	HR YYMMDD LMT	SAMPLE NUMBER	CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	UNF-REAC UG/L PHENOL

MAXIMUM		1060			27.0	0.300	0.050	9.300	1.180		8.56	4.500
ARITH MEAN		295			12.6	0.057	0.021	6.025	0.669		8.22	2.500
GEOM MEAN					8.8	0.034	0.015		0.633		8.22	
MINIMUM		36			1.5	0.005	0.001	0.280	0.380		7.89	1.500
STD DEV (GEOM *)					9.8	0.080	0.014		0.250		0.16	
# SAMP IN STATISTICS		5			12	12	12	11	12		12	3
% SAMP (EXCLUDED)		44						8				75

*INTERIM TEST-NAME:		PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
830110	1415	31312	0.031	0.039	4<	3.4	630	170	4.00	0.0600
830215	1435	31325	0.023	0.040	4<	4.7	160	980	2.20	0.0100
830315	1420	31338	0.008	0.027	4<	3.4	380	1500	2.50	0.0100<
830412	1400	31351	0.032	0.058	4<	10.2	600AID	11000	10.30	0.0100<
830510	1420	31364	0.007	0.019	4<	5.8	320C	5400	2.90	0.0100<
830614	1445	31377	0.012	0.021	4<	3.8	180C	3150	2.30	0.0100
830712	1425	31390	0.011	0.024	4<	2.8	900C	33000	1.95	0.0100<
830809	1420	31403	0.020	0.049	4	2.6	1000C	58000	4.60	0.0100<
830907	1425	31416	0.007	0.020		3.8			4.40	0.001 <
831011	1400	31429	0.009	0.023		1.4			1.10	
831115	1340	31442	0.139	0.188		0.9			2.60	0.001 <M
831212	1325	31455	0.105	0.184	20	37.5	4700	23000	34.00	0.014
MAXIMUM		0.139	0.188	20	37.5	4700	58000	34.00	0.0600	
ARITH MEAN		0.034	0.058	12	6.7	986	15133	6.07	0.019 <A	
GEOM MEAN		0.020	0.040		4.0	562	5029	3.66		
MINIMUM		0.007	0.019	4	0.9	160	170	1.10	0.001	
STD DEV (GEOM *)		0.043	0.061		10.0	3*	7*	9.11		
# SAMP IN STATISTICS		12	12	2	12	9	9	12	5	
% SAMP (EXCLUDED)				77					54	

## 1983 WATER QUALITY DATA REGION 1

175

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT TOWNLINE DNSTR.FROM CENTRALIA BASE  
 STATION TYPE: RIVER

STATION ID: 08-0022-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 15 50.65 LONG: 081 31 40.23

U T M: 17 0457160.0 4790060.0 4

REGION: 01

DISTANCE: 120.698

*=INTERIM		TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
						ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL
					PROJECT	TOTAL	TOT.DEN.	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS
					SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MF
					CODE	AS	AS	AS	AT 25 C	AS	AS	CNT	CNT
						CAC03	O	CL-		CU	O	/100ML	/100ML
SAMPLE	DATE	HR		SAMPLE									
YMMDD	LMT			NUMBER	M								
830110	1150			31307	0.30	0101	277.0	0.50	18.000	635.0	0.0100<	11.5	40
830215	1140			31320	0.30	0101	263.0	0.80	19.000	630.0	0.0100<	12.5	4
830315	1145			31333	0.30	0101	254.0	1.56	21.000	600.0	0.0100<	10.5	8
830412	1140			31346	0.30	0101	226.0	1.77	15.500	540.0	0.0300	11.0	44
830510	1445			31359	0.30	0101	241.0	1.11	16.000	560.0	0.0100<	13.0	4<
830614	1155			31372	0.30	0101	244.0	0.76	17.000	575.0	0.0300	8.5	28
830712	1145			31385	0.30	0101	225.0	3.63	23.000	540.0	0.0100	9.5	72
830809	1140			31398	0.30	0101	225.0	1.42	19.500	545.0	0.0200	6.5	228
830907	1140			31411	0.30	0101	202.0	1.54	18.000	494.0	0.004	8.0	
831011	1125			31424	0.30	0101	244.0	1.07	21.000	580.0	0.0030	10.5	
831115	1115			31437	0.30	0101	256.0	1.61	48.500	690.0	0.003	12.5	
831212	1145			31450	0.30	0101	224.0	1.50	25.500	600.0	0.004	15.5	630
				MAXIMUM	0.30		277.0	3.63	48.500	690.0	0.0300	15.5	630
				ARITH MEAN	0.30		240.1	1.44	21.833	582.4	0.013	10.8	132
				GEOM MEAN			239.3	1.28	20.744	580.3		10.5	
				MINIMUM	0.30		202.0	0.50	15.500	494.0	0.0030	6.5	4
				STD DEV (GEOM *)			20.7	0.80	8.881	52.7		2.5	
# SAMP IN STATISTICS				12			12	12	12	8	12	8	8
% SAMP (EXCLUDED)										33		11	11
*=INTERIM		TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
						NH3-N			K'DAHL N				
						TOTAL			TOTAL				
					WATER	FIL.REAC	FIL.REAC	N03-N	UNF.REAC	LEAD	UNF.TOT.	FIL.REAC	PHOSPHOR
					TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UNF.TOT.
					DEG.C	AS N	AS N	AS N	AS N	AS N	AS N	AS P	AS P
SAMPLE	DATE	HR		SAMPLE									
YMMDD	LMT			NUMBER	COND.						PH		
830110	1150			31307	6	2.5	0.035	0.022	5.700	0.640	0.030	8.13	0.024
830215	1140			31320	4	1.0	0.030	0.022	6.400	0.580	0.030<	8.06	0.019
830315	1145			31333	6	5.0	0.015	0.019	4.330	0.810	0.030<	8.18	0.018
830412	1140			31346	6	7.5	0.010	0.023	6.700	0.990	0.030<	8.11	0.018
830510	1445			31359	9	11.5	0.020	0.024	5.600	0.700	0.030<	8.24	0.015
830614	1155			31372	9	23.5	0.050	0.069	4.800	0.780	0.030<	8.06	0.032
830712	1145			31385	7	23.0	0.190	0.029	0.970	0.900	0.030<	8.18	0.044
830809	1140			31398	7	23.0	0.050	0.052	3.600	0.990	0.030<	7.99	0.055
830907	1140			31411	8	22.0	0.015	0.076	0.970	0.730	0.003<	8.02	0.082
831011	1125			31424	8	12.5	0.025	0.014	3.090	0.640	0.003<	8.10	0.215
831115	1115			31437	6	3.5	0.030	0.019	6.030	1.000	0.003<	8.12	0.151
831212	1145			31450	3	2.5	0.045	0.024	9.000	0.420	0.003<	7.89	0.065

( CONTD )



## 1983 WATER QUALITY DATA REGION 1

176

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT TOWNLINE DNSTR.FROM CENTRALIA BASE  
 STATION TYPE: RIVER

STATION ID: 08-0022-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 15 50.65 LONG: 081 31 40.23 U T M: 17 0457160.0 4790060.0 4 REGION: 01 DISTANCE: 120.698

*=-INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC MG/L AS N	NN03FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH PH	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P
MAXIMUM				23.5	0.190	0.076	9.000	1.000	0.030	8.24	0.215	0.245
ARITH MEAN				11.5	0.043	0.033	4.766	0.765	0.030	8.09	0.061	0.111
GEOM MEAN				7.5	0.031	0.028	3.988	0.743		8.09	0.042	0.089
MINIMUM				1.0	0.010	0.014	0.970	0.420	0.030	7.89	0.015	0.030
STD DEV (GEOM *)				9.1	0.048	0.021	2.349	0.183		0.09	0.062	0.071
# SAMP IN STATISTICS				12	12	12	12	12	1	12	12	12
% SAMP (EXCLUDED)									91			

*=-INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER					
830110	1150	31307	4<	3.2	410C	2600	2.60
830215	1140	31320	4<	8.9	560	1700	2.20
830315	1145	31333	4<	5.4	200C	2900	2.90
830412	1140	31346	8	8.8	1900	16000	7.40
830510	1445	31359	4<	7.1	210C	9600	5.70
830614	1155	31372	4<	14.2	270C	8600	8.60
830712	1145	31385	4<	26.4	700AID	40000	22.00
830809	1140	31398	12	35.4	5200C	56000	28.00
830907	1140	31411		19.2			17.30
831011	1125	31424		8.9			6.30
831115	1115	31437		1.9			3.10
831212	1145	31450	12	12.6	3600	27000	15.30
MAXIMUM			12	35.4	5200	56000	28.00
ARITH MEAN			11	12.7	1450	18267	10.12
GEOM MEAN				9.5	738	10026	7.19
MINIMUM			8	1.9	200	1700	2.20
STD DEV (GEOM *)				9.9	3*	4*	8.55
# SAMP IN STATISTICS			3	12	9	9	12
% SAMP (EXCLUDED)			66				33

## 1983 WATER QUALITY DATA REGION 1

177

B.O.W./ SITE: PARKHILL CREEK  
 SAMPLE POINT: RD.BETWEEN LOTS 15&16 WEST OF PARKHILL  
 STATION TYPE: RIVER

STATION ID: 08-0022-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 11 05.93 LONG: 081 43 46.93

U T M: 17 0440700.0 4781400.0 4

REGION: 01

DISTANCE: 19.955

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF			
					ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL			
				PROJECT	TOTAL	TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	COLIFORM	STREPCUS			
				SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MF			
				CODE	AS	AS O	AS CL-	AT 25 C	AS CU	AS O	CNT	CNT			
					CAC03						/100ML	/100ML			
SAMPLE	DATE	YMMDD	HHMM	NUMBER	DEPTH	M									
830110	1330			31311	0.30		0101	228.0	1.31	16.500	550.0	0.0100<	10.5	44	320
830215	1350			31324	0.30		0101	243.0	1.61	20.000	600.0	0.0100	11.0	272	172
830315	1320			31337	0.30		0101	237.0	2.32	17.000	560.0	10.5	10AID	10<	10<
830412	1315			31350	0.30		0101	215.0	1.87	16.000	535.0	0.0100	11.5	4<	64
830510	1345			31363	0.30		0101	199.0	1.85	13.500	495.0	0.0100<	11.0	4	4<
830614	1400			31376	0.30		0101	205.0	1.57	16.000	515.0	0.0100	8.0	36	4<
830712	1340			31389	0.30		0101	222.0	1.79	16.000	525.0	0.0200	8.0	148	72
830809	1330			31402	0.30		0101	194.0	3.82	20.000	525.0	0.0200	7.0	276	160
830907	1340			31415	0.30		0101	182.0	1.63	18.000	470.0	0.006	9.0		
831011	1315			31428	0.30		0101	186.0	2.61	21.500	495.0	0.0030	10.0		
831115	1255			31441	0.30		0101	242.0	2.60	34.500	625.0	0.004	15.5		
831212	1325			31454	0.30		0101	194.0	1.71	33.500	585.0	0.003	14.5	520	910
MAXIMUM					0.30			243.0	3.82	34.500	625.0	0.0200	15.5	520	910
ARITH MEAN					0.30			212.2	2.06	20.208	540.0	0.010	10.5	164	283
GEOM MEAN								211.2	1.97	19.361	538.2		10.3		
MINIMUM					0.30			182.0	1.31	13.500	470.0	0.0030	7.0	4	64
STD DEV (GEOM *)								21.9	0.69	6.807	46.1		2.5		
# SAMP IN STATISTICS					12			12	12	12	12	9	12	8	6
% SAMP (EXCLUDED)												18		11	33
*INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT			
					NH3-N			K'DAHL N			P04	PHOSPHOR			
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		FIL. REAC	UNF. TOT.			
					FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		MG/L	MG/L			
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L			
					AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P			
SAMPLE	DATE	YMMDD	HHMM	NUMBER	STREAM	TEMP									
830110	1330			31311	6	2.5	0.205	0.043	5.400	1.050	0.030<	7.98	0.125	0.145	
830215	1350			31324	6	1.5	0.165	0.027	5.700	0.970	0.030<	7.99	0.084	0.118	
830315	1320			31337	6	5.0	0.010	0.013	4.340	0.890	8.29	0.007	0.066		
830412	1315			31350	6	9.0	0.055	0.040	5.200	1.240	0.030<	8.26	0.034	0.088	
830510	1345			31363	6	12.5	0.010	0.039	6.400	1.130	0.030<	8.13	0.052	0.157	
830614	1400			31376	6	22.5	0.130	0.137	5.800	1.110	0.030<	8.00	0.027	0.072	
830712	1340			31389	6	23.5	0.030	0.085	4.600	1.000	0.030<	8.90	0.050	0.145	
830809	1330			31402	6	24.0	0.045	0.103	8.100	1.700	0.030<	7.90	0.018	0.234	
830907	1340			31415	6	22.5	0.025	0.062	3.990	1.040	0.003<	7.98	0.047	0.148	
831011	1315			31428	6	14.0	0.050	0.077	4.320	1.250	0.003<	7.98	0.019	0.118	
831115	1255			31441	6	4.0	0.020	0.015	3.590	1.100	0.003<	8.07	0.011	0.079	
831212	1325			31454	3 9	3.0	0.035	0.023	7.600	0.680	0.003<	7.78	0.117	0.158	

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

178

B.O.W./ SITE: PARKHILL CREEK  
 SAMPLE POINT: RD.BETWEEN LOTS 15&16 WEST OF PARKHILL  
 STATION TYPE: RIVER

STATION ID: 08-0022-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 11 05.93 LONG: 081 43 46.93

U T M: 17 0440700.0 4781400.0 4

REGION: 01

DISTANCE: 19.955

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	
DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	P04 MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P
MAXIMUM				24.0	0.205	0.137	8.100	1.700		8.90	0.125	0.234
ARITH MEAN				12.0	0.065	0.055	5.420	1.097		8.10	0.049	0.127
GEOM MEAN				8.3	0.042	0.044	5.263	1.073		8.10	0.035	0.119
MINIMUM				1.5	0.010	0.013	3.590	0.680		7.78	0.007	0.066
STD DEV (GEOM *)				9.1	0.065	0.038	1.402	0.244		0.29	0.040	0.048
# SAMP IN STATISTICS				12	12	12	12	12		12	12	12
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		PSAMF PSEUDOWN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
DATE	HOUR	SAMPLE NUMBER	RESIDUE PARTIC. MG/L	MF CNT /100ML	BCKGRD CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830110	1330	31311	4<	12.8	380	1900	31.00
830215	1350	31324	4<	13.4	3200	14000	17.90
830315	1320	31337	4<	18.3	100<	1800	20.00
830412	1315	31350	4<	23.3	400AID	6100	22.00
830510	1345	31363	4<	41.6	90C	3700	51.00
830614	1400	31376	4<	23.5	230C	4450	17.40
830712	1340	31389	4<	62.4	800C	39000	60.00
830809	1330	31402	4<	100.5	1600C	75000	78.00
830907	1340	31415		65.3			69.00
831011	1315	31428		44.8			53.00
831115	1255	31441		6.9			6.70
831212	1325	31454	20	15.4	4800	25000	28.00
MAXIMUM			20	100.5	4800	75000	78.00
ARITH MEAN			20	35.7	1437	18994	37.83
GEOM MEAN				26.8		8904	30.68
MINIMUM			20	6.9	90	1800	6.70
STD DEV (GEOM *)				28.2		4*	23.31
# SAMP IN STATISTICS			1	12	8	9	12
% SAMP (EXCLUDED)			88		11		18

## 179

STORET CODE: 02  
002  
0180

#=INTERIM		TEST-NAME:		FWSTRC	FWTEMP	NIUT	NHHTFR NH3-N	NNO2FR	NNO3FR	NNTKUR K'DAHL N	PBUT	PH	PP04FR
SAMPLE						NICKEL	TOTAL	N02-N	N03-N	TOTAL	LEAD		P04
DATE	HRUR	SAMPLE	STREAM	WATER	UNF. TOT.	FIL. REAC	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		FIL. REAC
YYMMDD	LMT	NUMBER	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PH	MG/L
				DEG. C	AS NI	AS N	AS N	AS N	AS N	AS N	AS PB		AS P
830110	1215	31308	6	2.5	0.020<	0.125	0.036	5.900	0.950	0.030<	7.99	0.078	
830215	1235	31321	4	1.5	0.020	0.065	0.020	6.100	0.800	0.030<	7.86	0.046	
830315	1210	31334	6	6.0	0.030	0.010	0.013	4.140	0.940	0.030<	8.16	0.003	
830412	1210	31347	6	8.0	0.020<	0.035	0.042	5.700	0.890	0.030<	8.16	0.033	
830510	1220	31360	6	9.0	0.020<	0.015	0.038	6.200	1.100	0.030<	8.01	0.022	
830614	1225	31373	9	24.0	0.020<	0.205	0.097	6.000	1.550	0.030<	7.88	0.033	
830712	1215	31386	6	23.5	0.020<	0.125	0.057	4.000	1.140	0.030<	7.96	0.029	
830809	1210	31399	6	26.0	0.020<	0.050	0.074	6.100	1.400	0.030<	7.94	0.019	
830907	1215	31412	6	24.5	0.003	0.090	0.040	1.320	0.750	0.003<	8.01	0.025	
831011	1155	31425	6	12.5	0.004	0.020	0.005	0.430	0.720	0.003<	8.05	0.235	
831115	1145	31438	6	3.5	0.001	0.020	0.015	4.840	1.060	0.003<	7.98	0.019	
831212	1215	31451	6 9	3.0	0.006	0.035	0.023	9.300	0.910	0.003<	7.83	0.073	

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

180

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT HIGHWAY 21 GRAND BEND  
 STATION TYPE: RIVER

STATION ID: 08-0022-013-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 18 40.75 LONG: 081 45 25.59 U T M: 17 0438600.0 4795450.0 4 REGION: 01 DISTANCE: 0.805

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR PO4 FIL.REAC
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH

MAXIMUM				26.0	0.030	0.205	0.097	9.300	1.550		8.16	0.235
ARITH MEAN				12.0	0.011	0.066	0.038	5.002	1.017		7.99	0.051
GEOM MEAN				8.1		0.045	0.029	4.054	0.991		7.99	0.032
MINIMUM				1.5	0.001	0.010	0.005	0.430	0.720		7.83	0.003
STD DEV (GEOM *)				9.7		0.060	0.027	2.352	0.252		0.10	0.062
# SAMP IN STATISTICS				12	6	12	12	12	12		12	12
% SAMP (EXCLUDED)					50							

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN PHOSPHOR	RSP	TCHF COLIFORM TOTAL	TCHF BK COLIFORM TOTAL MF	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TOTAL MF CNT	BCKGRD CNT	TURB'ITY FTU	UNF.TOT. MG/L AS ZN
830110	1215	31308	0.106	4<	16.2	360	2500	26.00
830215	1235	31321	0.072	4<	14.8	800C	3300	14.50
830315	1210	31334	0.054	4<	17.3	320	3200	3.60
830412	1210	31347	0.102	4<	40.7	1100	11900	45.00
830510	1220	31360	0.113	4<	38.7	160C	7400	44.00
830614	1225	31373	0.130	4<	42.0	3400	14200	41.00
830712	1215	31386	0.109	16	44.2	5700C	61000	43.00
830809	1210	31399	0.144	4	56.0	1600C	38000	64.00
830907	1215	31412	0.075	4	29.1	2500C	29000	32.00
831011	1155	31425	0.265		5.1			6.20
831115	1145	31438	0.097		6.9			8.50
831212	1215	31451	0.150	36	80.7	4300	20000	82.00
MAXIMUM			0.265	36	80.7	5700	61000	82.00
ARITH MEAN			0.118	15	32.6	2024	19050	35.40
GEOM MEAN			0.109		24.9	1184	11607	27.84
MINIMUM			0.054	4	5.1	160	2500	6.20
STD DEV (GEOM *)			0.054		22.2	3*	3*	22.64
# SAMP IN STATISTICS			12	4	12	10	10	12
% SAMP (EXCLUDED)				60				41

## 1983 WATER QUALITY DATA REGION 1

181

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT FIRST CONC. WEST OF HIGHWAY 4 EXETER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF103

STATION ID: 08-0022-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 21 43.97 LONG: 081 30 34.87 U T M: 17 0458700.0 4800950.0 4 REGION: 01 DISTANCE: 134.377

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF	
					ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL	
SAMPLE	DATE	HR	SAMPLE	PROJECT	TOTAL	TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	COLIFORM	STREPCUS	
YYMMDD	YYMMDD	LMT	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MF	
			M	CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	CNT	CNT	
											/100ML	/100ML	
830110	1120		31306	0101	273.0	1.17	22.000	630.0	0.0100<	11.0	364	600>	
830215	1115		31319	0101	248.0	0.84	19.000	630.0	0.0100	14.0	70AID	10<	
830315	1115		31332	0101	218.0	3.84	28.500	560.0	0.0100<	12.0	16	4<	
830412	1120		31345	0101	230.0	2.30	19.000	565.0	0.0100	12.0	20	12	
830510	1135		31358	0101	217.0	0.79	14.500	530.0	0.0200	15.5	4	4<	
830614	1125		31371	0101	200.0	0.88	17.500	505.0	0.0100	12.0	416	32	
830712	1120		31384	0101	186.0	1.66	33.000	471.0	0.0100	12.0	1500>	320	
830809	1115		31397	0101	200.0	1.54	31.500	515.0	0.0100	12.5	380	460	
830907	1120		31410	0101	185.0	1.30	25.000	459.0	0.029	10.0			
831011	1100		31423	0101	220.0	1.19	21.500	535.0	0.0020	13.5			
831115	1050		31436	0101	248.0	2.45	98.500	800.0	0.002	17.0			
831212	1115		31449	0101	238.0	1.81	24.500	600.0	0.003	16.0	1500>	610	
MAXIMUM			0.30		273.0	3.84	98.500	800.0	0.029	17.0	416	610	
ARITH MEAN			0.30		221.9	1.65	29.542	566.7	0.011	13.1	181	287	
GEOM MEAN					220.4	1.47	25.551	560.5		13.0			
MINIMUM			0.30		185.0	0.79	14.500	459.0	0.0020	10.0	4	12	
STD DEV (GEOM *)					26.9	0.88	22.428	92.0		2.1			
# SAMP IN STATISTICS			12		12	12	12	12	10	12	7	5	
% SAMP (EXCLUDED)									16		22	44	
*INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT	
					NNH3-N	N02-N	N03-N	K'DAHL N	LEAD		P04	PHOSPHOR	
SAMPLE	DATE	HR	SAMPLE	WATER	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		FIL. REAC	UNF. TOT.	
YYMMDD	YYMMDD	LMT	NUMBER	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	
			COND.	DEG. C	AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P	
830110	1120		31306	8	3.0	0.095	0.018	7.100	0.540	0.030<	8.23	0.017	0.034
830215	1115		31319	8	1.5	0.030	0.017	7.700	0.630	0.030<	8.24	0.003	0.019
830315	1115		31332	8	4.5	0.005<	0.026	4.100	1.150	0.030<	8.20	0.011	0.135
830412	1120		31345	8	8.0	0.025	0.034	7.200	0.940	0.030<	8.36	0.009	0.098
830510	1135		31358	8	10.5	0.020	0.031	6.500	0.520	0.030<	8.20	0.003	0.016
830614	1125		31371	8	24.0	0.040	0.061	6.100	0.680	0.030<	8.24	0.010	0.041
830712	1120		31384	8	24.0	0.040	0.011	0.280	0.530	0.030<	8.37	0.027	0.042
830809	1115		31397	8	23.0	0.040	0.039	2.900	1.030	0.030<	8.56	0.057	0.105
830907	1120		31410	8	21.5	0.070	0.045	0.510	0.590	0.003<	8.07	0.037	0.066
831011	1100		31423	8	12.5	0.020	0.011	3.790	0.460	0.003<	8.16	0.014	0.029
831115	1050		31436	8	3.0	0.165	0.017	3.380	1.660	0.003<	8.36	0.865	1.070
831212	1115		31449	3	2.0	0.180	0.024	7.800	1.200	0.006	7.91	0.080	0.118

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

182

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT FIRST CONC.WEST OF HIGHWAY 4 EXETER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF103

STATION ID: 08-0022-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 21 43.97 LONG: 081 30 34.87

U T M: 17 0458700.0 4800950.0 4

REGION: 01

DISTANCE: 134.377

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	AS P
MAXIMUM				24.0	0.180	0.061	7.800	1.660	0.006	8.56	1.070
ARITH MEAN				11.5	0.066	0.028	4.780	0.827	0.006	8.24	0.148
GEOM MEAN				7.6		0.024	3.430	0.762		8.24	0.065
MINIMUM				1.5	0.020	0.011	0.280	0.460	0.006	7.91	0.016
STD DEV (GEOM *)				9.3		0.015	2.680	0.370		0.16	0.293
# SAMP IN STATISTICS				12	11	12	12	12	1	12	12
% SAMP (EXCLUDED)					8				91		

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE	HOUR	SAMPLE NUMBER	MF CNT /100ML	RESIDUE MG/L	MF CNT /100ML	MF CNT /100ML	AS ZN
830110	1120	31306	4<	3.9	620	1900	0.0200
830215	1115	31319	4<	2.6	350	1590	0.0100
830315	1115	31332	4<	8.9	310C	3300	0.0100<
830412	1120	31345	4<	5.0	100AID	11600	0.0100<
830510	1135	31358	4<	2.9	60C	7600	0.0100
830614	1125	31371	4<	6.7	1600	15800	0.0100<
830712	1120	31384	20	3.1	7000C	47000	0.0100<
830809	1115	31397	4<	3.7	1000C	114000	0.0100<
830907	1120	31410		4.2			0.002
831011	1100	31423		2.1			0.002
831115	1050	31436		3.1			0.001
831212	1115	31449	92	20.8	32000	47000	0.009
MAXIMUM		92		20.8	32000	114000	0.0200
ARITH MEAN		56		5.6	4782	27754	0.008
GEOM MEAN				4.4	807	11492	2.61
MINIMUM		20		2.1	60	1590	0.001
STD DEV (GEOM *)				5.2	7*	5*	4.10
# SAMP IN STATISTICS		2		12	9	9	7
% SAMP (EXCLUDED)		77					41

## 1983 WATER QUALITY DATA REGION 1

183

B.O.W./ SITE: AUSABLE RIVER  
 SAMPLE POINT: AT MORRISON DAM EAST OF EXETER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FF104

STATION ID: 08-0022-017-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: AUSABLE RIVER

STORET CODE: 02  
 002  
 0180

LAT: 43 21 31.82 LONG: 081 27 21.52 U T M: 17 0463050.0 4800550.0 4 REGION: 01 DISTANCE: 136.630

**INTERIM		TEST-NAME:	FNSADP	FGPROJ	ALKT	CLIDUR	COND25	FCMF	FECAL	FSMF	FWSTRC	FWTEMP	NNHTFR
					ALK	CHLORIDE	CONDUCT.	COLIFORM	FECAL	FECAL			NH3-N
SAMPLE	DATE	HOURL	SAMPLE	PROJECT	TOTAL	UNF.REAC	25C	MF	STREPCUS	MF		WATER	TOTAL
YYMMDD	YYMMDD	LMT	DEPTH	SUB-PROJ	MG/L	MG/L	UMHO/CM	CNT	CNT	CNT	STREAM	TEMP	FIL.REAC
			M	CODE	AS CAC03	AS CL-	AT 25 C	/100ML	/100ML	/100ML	COND.	DEG.C	MG/L
830110	0850		31300	0101		15.000	620.0	8	112	6		1.0	0.070
830215	0850		31313	0101		16.000	635.0	48	24	4		1.0	0.045
830315	0905		31326	0101		15.000	580.0	4<	4<	6		5.0	0.030
830412	0905		31339	0101		14.000	970.0	72	600>	6		7.0	0.120
830510	0910		31352	0101	229.0	14.000	570.0	4<	10<	6		10.0	0.040
830614	0850		31365	0101		15.500	499.0	4<	4<	5		24.0	0.100
830712	0900		31378	0101		15.000	412.0	12	4	6		23.5	0.135
830809	0850		31391	0101		18.000	497.0	4<	4<	7		24.5	0.235
830907	0855		31404	0101		14.000	407.0			7		23.5	0.205
831011	0855		31417	0101		18.000	545.0			6		12.5	0.065
831115	0845		31430	0101		20.500	620.0			6		3.5	0.055
831212	0900		31443	0101		17.000	580.0	72	404	6		1.0	0.065
MAXIMUM			0.30		229.0	20.500	970.0	72	404			24.5	0.235
ARITH MEAN			0.30		229.0	16.000	577.9	42	136			11.4	0.097
GEOM MEAN						15.891	563.7					6.4	0.080
MINIMUM			0.30		229.0	14.000	407.0	8	4			1.0	0.030
STD DEV (GEOM *)						2.011	145.0					9.9	0.066
# SAMP IN STATISTICS			12		1	12	12	5	4			12	12
% SAMP (EXCLUDED)								44	55				
**INTERIM		TEST-NAME:	NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF		RSP		
					K'DAHL N				PSEUDOMN				
			NO2-N	NO3-N	TOTAL		PO4	PHOSPHOR	AERUG.				
SAMPLE	DATE	HOURL	FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	MF		RESIDUE		
YYMMDD	YYMMDD	LMT	MG/L	MG/L	MG/L	PH	MG/L	MG/L	CNT		PARTIC.	MG/L	
			AS N	AS N	AS N		AS P	AS P	/100ML				
830110	0850		0.019	7.500	0.480	8.14	0.020	0.028	4<		2.0		
830215	0850		0.017	8.200	0.570	8.06	0.012	0.046	4<		28.9		
830315	0905		0.019	6.200	0.690	8.19	0.006	0.032	4<		3.1		
830412	0905		0.056	7.700	0.690	7.58	0.023	0.044	4		6.0		
830510	0910		0.039	6.700	0.520	8.21	0.006	0.023	4<		3.4		
830614	0850		0.065	6.500	0.910	8.12	0.013	0.051	4<		20.9		
830712	0900		0.046	1.800	0.880	8.04	0.003	0.024	4<		3.4		
830809	0850		0.480	4.200	1.480	7.78	0.020	0.086	4<		1.4		
830907	0855		0.043	1.090	0.870	8.00	0.014	0.048			0.6		
831011	0855		0.039	4.360	0.650	8.06	0.002	0.027			3.5		
831115	0845		0.024	6.600	0.630	8.08	0.004	0.015			3.3		
831212	0900		0.021	8.300	0.600	7.99	0.025	0.037	4<		15.0		

( C O N T D )



## 184

STATION ID: 08-0022-017-02

STORET CODE: 02  
002  
0180

**DISTANCE: 136.630**

[illegible]

## 1983 WATER QUALITY DATA REGION 1

185

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: FIRST CONCESSION DOWNSTREAM FROM CLINTON  
 STATION TYPE: RIVER

STATION ID: 08-0040-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

		LAT: 43 35 18.42		LONG: 081 33 28.95		U T M: 17 0454950.0 4826100.0 4		REGION: 01		DISTANCE: 21.243															
*=INTERIM		TEST-NAME:		FWSADP		FGPROJ		ALKT		BOD5		CLIDUR		COND25		CUUT		DO		FCMF		FSMF			
										BOD				CONDUCT.		COPPER		DISOLVED		FECAL		FECAL			
SAMPLE				SAMPLE		PROJECT		TOTAL		TOT. DEM.		CHLORIDE		25C		UNF. TOT.		OXYGEN		COLIFORM		STREPCUS			
DATE		HOUR		DEPTH		SUB-PROJ		MG/L		MG/L		MG/L		UMHO/CM		MG/L		MG/L		MF		MF			
YYMMDD		LMT		M		CODE		AS CAC03		AS O		AS CL-		AT 25 C		AS CU		AS O		CNT		CNT			
																				/100ML		/100ML			
830110		1010		31303		0101		271.0		0.45		24.500		640.0		0.0100<		12.5		136		124			
830215		1010		31316		0101		221.0		0.90		23.000		645.0		0.0100<		12.0		148		84			
830315		1015		31329		0101		242.0		1.26		23.000		610.0		0.0100<		9.5		92		20			
830412		1020		31342		0101		247.0		1.08		17.500		585.0		0.0100		11.0		272		24			
830510		1030		31355		0101		237.0		0.82		16.500		570.0		0.0100		11.0		30AID		4<			
830614		1015		31368		0101		203.0		0.90		21.500		510.0		0.0200		11.0		12		4<			
830712		1010		31381		0101		176.0		1.04		30.000		473.0		0.0100<		11.0		304		128			
830809		1005		31394		0101		233.0		0.46		24.000		570.0		0.0100		9.0		600>		320			
830907		1010		31407		0101		155.0		0.82		35.500		464.0		0.031		11.5							
831011		1005		31420		0101		264.0		0.39		28.500		655.0		0.0020		12.5							
831115		0955		31433		0101		281.0		1.49		38.000		700.0		0.003		16.0							
831212		1015		31446		0101		265.0		0.98		31.000		660.0		0.003		15.5		940		920			
				MAXIMUM				281.0		1.49		38.000		700.0		0.031		16.0		940		920			
				ARITH MEAN				232.9		0.88		26.083		590.2		0.011		11.9		242		231			
				GEOM MEAN				229.7		0.82		25.308		585.4				11.7							
				MINIMUM				155.0		0.39		16.500		464.0		0.0020		9.0		12		20			
				STD DEV (GEOM %)				38.6		0.33		6.663		76.2				2.1							
				# SAMP IN STATISTICS		12		12		12		12		12		8		12		8		7			
				% SAMP (EXCLUDED)												33				11		22			
*=INTERIM		TEST-NAME:		FWSTRC		FWTEMP		NNHTFR		NN02FR		NN03FR		NNTKUR		PBUT		PH		PP04FR		PPUT			
								NH3-N						K'DAHL N											
								TOTAL		N02-N		N03-N		TOTAL		LEAD				P04		PHOSPHOR			
SAMPLE				FIL. REAC		FIL. REAC		FIL. REAC		FIL. REAC		UNF. REAC		UNF. REAC		UNF. TOT.				FIL. REAC		UNF. TOT.			
DATE		HOUR		MG/L		MG/L		MG/L		MG/L		MG/L		MG/L		MG/L				MG/L		MG/L			
YYMMDD		LMT		AS N		AS N		AS N		AS N		AS N		AS N		AS PB		PH		AS P		AS P			
830110		1010		31303		8		1.5		0.025		0.015		6.900		0.440		0.030<		8.23		0.037		0.044	
830215		1010		31316		8		1.0		0.030		0.018		7.800		0.580		0.030<		8.16		0.031		0.040	
830315		1015		31329		8		4.5		0.045		0.028		6.500		0.670		0.030<		8.19		0.018		0.043	
830412		1020		31342		6		7.0		0.040		0.058		7.700		0.620		0.030<		8.19		0.025		0.049	
830510		1030		31355		6		8.0		0.010		0.019		7.800		0.520		0.030<		8.27		0.003		0.019	
830614		1015		31368		8		22.5		0.040		0.049		4.500		0.780		0.030<		8.24		0.021		0.027	
830712		1010		31381		8		22.5		0.040		0.012		1.010		0.620		0.030<		8.30		0.017		0.034	
830809		1005		31394		8		22.0		0.030		0.028		4.000		0.620		0.030<		8.17		0.034		0.049	
830907		1010		31407		7		21.0		0.040		0.006		0.640		0.560		0.003<		8.37		0.009		0.028	
831011		1005		31420		6		10.5		0.010		0.012		6.100		0.540		0.003		8.23		0.015		0.022	
831115		0955		31433		6		2.5		0.105		0.028		5.800		0.760		0.003<		8.02		0.010		0.025	
831212		1015		31446		6		2.0		0.125		0.050		7.500		0.210		0.005		7.91		0.053		0.073	

(CONT'D)

## 186

STATION ID: 08-0040-006-02

STORET CODE: 02  
002  
0370

* = INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR P04	PPUT PHOSPHOR
SAMPLE DATE YYMMDD	HOUR LM	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB		FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
				22.5	0.125	0.058	7.800	0.780	0.005		0.053	0.073
		MAXIMUM		10.4	0.045	0.027	5.521	0.577	0.004	8.37	0.023	0.038
		ARITH MEAN		6.4	0.035	0.022	4.477	0.552		8.19	0.018	0.035
		GEOM MEAN		1.0	0.010	0.006	0.640	0.210	0.003	7.91	0.003	0.019
		MINIMUM		9.0	0.035	0.017	2.520	0.150		0.12	0.014	0.015
		STD DEV (GEOM *)										
		# SAMP IN STATISTICS		12	12	12	12	12	2	12	12	12
		% SAMP (EXCLUDED)							83			

*INTERIM		TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	MF CNT /100ML	RESIDUE PARTIC. MG/L	MF CNT /100ML	BCKGRD CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830110	1010	31303	4<	2.1	1100	2700	1.58	0.0500
830215	1010	31316	4<	13.0	1600	300	2.30	0.0100<
830315	1015	31329	4<	2.7	520C	4700	1.92	0.0100<
830412	1020	31342	4<	8.2	3700	9700	6.20	0.0100<
830510	1030	31355	4	2.4	330C	20500	2.30	0.0100<
830614	1015	31368	4<	1.5	150	1620	0.83	0.0100<
830712	1010	31381	4<	1.9	1000C	43000	1.59	0.0100<
830809	1005	31394	96	0.4	11400C	53000	1.15	0.0100<
830907	1010	31407		1.5			0.72	0.002
831011	1005	31420		0.7			1.24	0.001
831115	0955	31433		1.3			1.63	0.002
831212	1015	31446	4	17.5	1900	39000	7.10	0.004
		MAXIMUM	96	17.5	11400	53000	7.10	0.0500
		ARITH MEAN	35	4.4	2411	19391	2.38	0.012
		GEOM MEAN		2.4	1154	7817	1.85	
		MINIMUM	4	0.4	150	300	0.72	0.001
		STD DEV (GEOM *)		5.5	4*	6*	2.06	
		# SAMP IN STATISTICS	3	12	9	9	12	5
		% SAMP (EXCLUDED)	66					58

## 1983 WATER QUALITY DATA REGION 1

187

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: AT HURON COUNTY ROAD 31 NORTH OF VARNA  
 STATION TYPE: RIVER FLOW GAUGE FED 02FF007

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STATION ID: 08-0040-008-02

STORET CODE: 02  
 002  
 0370

LAT: 43 33 02.52 LONG: 081 35 21.34

U T M: 17 0452400.0 4821925.0 4

REGION: 01

DISTANCE: 14.162

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	FCMF FECAL COLIFORM	FEUT	FSHF FECAL STREPCUS	FWFLOW
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	IRON UNF.TOT. MG/L AS FE	STREAM FLOW M3 /S
830110	1035	31304	0.30	0101	265.0	24.500	630.0	0.0100<	56	0.0700	2.960
830215	1030	31317	0.30	0101	254.0	22.000	620.0	0.0100<	84	0.0600	3.000
830315	1035	31330	0.30	0101	247.0	19.500	580.0	0.0100<	48	0.0500	2.560
830412	1035	31343	0.30	0101	243.0	16.000	575.0	0.0100	176	0.2600	10.600
830510	1050	31356	0.30	0101	239.0	15.000	570.0	0.0200	12	0.1100	8.320
830614	1040	31369	0.30	0101	196.0	17.500	490.0	0.0400	12	0.1000	1.770
830712	1035	31382	0.30	0101	177.0	18.500	444.0	0.0100	160	0.1200	0.335
830809	1025	31395	0.30	0101	218.0	19.000	530.0	0.0100	600>	0.2500	1.870
830907	1030	31408	0.30	0101	177.0	16.000	424.0		210	0.054	0.198
831011	1020	31421	0.30	0101	258.0	25.500	630.0	0.0030			2.150
831115	1010	31434	0.30	0101	279.0	30.500	675.0	0.007		0.025	3.070
831212	1035	31447	0.30	0101	236.0	27.500	605.0	0.006	390	2.000	24.300
MAXIMUM		0.30			279.0	30.500	675.0	0.0400	390	2.000	24.300
ARITH MEAN		0.30			232.4	20.958	564.4	0.013	128	0.282	5.094
GEOM MEAN					230.0	20.437	559.1			0.115	2.536
MINIMUM		0.30			177.0	15.000	424.0	0.0030	12	0.025	0.198
STD DEV (GEOM *)					33.6	5.016	78.0			0.575	6.781
# SAMP IN STATISTICS		12			12	12	12	8	9	11	8
% SAMP (EXCLUDED)								27	10	20	12
*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC MG/L AS N	NN03FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PP04FR P04 FIL.REAC MG/L AS P
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P
830110	1035	31304	8	2.0	0.010	0.011	6.500	0.430	0.030<	8.23	0.026
830215	1030	31317	8	1.0	0.005<	0.010	7.200	0.430	0.030	8.19	0.010
830315	1035	31330	8	4.5	0.010	0.021	6.400	0.690	0.030<	8.25	0.004
830412	1035	31343	6	7.5	0.030	0.038	7.500	0.550	0.030<	8.25	0.019
830510	1050	31356	6	8.0	0.015	0.019	7.700	0.500	0.030<	8.22	0.003
830614	1040	31369	8	22.0	0.035	0.039	4.700	0.740	0.030<	8.30	0.011
830712	1035	31382	8	22.5	0.030	0.010	1.400	0.510	0.030<	8.33	0.009
830809	1025	31395	8	21.0	0.085	0.026	4.700	0.720	0.030<	8.17	0.017
830907	1030	31408	8	21.5	0.025	0.006	1.210	0.420		8.45	0.002
831011	1020	31421	8	11.0	0.010	0.006	5.590	0.570	0.003<	8.19	0.012
831115	1010	31434	8	3.5	0.005	0.015	6.800	0.560	0.003<	8.10	0.003
831212	1035	31447	3 9	2.5	0.080	0.031	8.400	0.520	0.005	7.87	0.065

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

188

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: AT HURON COUNTY ROAD 31 NORTH OF VARNA  
 STATION TYPE: RIVER FLOW GAUGE FED 02FF007

STATION ID: 08-0040-008-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 33 02.52 LONG: 081 35 21.34

U T M: 17 0452400.0 4821925.0 4

REGION: 01

DISTANCE: 14.162

*INTERIM TEST-NAME:		FNSTRC	FNTMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR P04 FIL.REAC
SAMPLE DATE	HR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD MG/L AS PB		PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P
YYMMDD	LMT										

MAXIMUM				22.5	0.085	0.039	8.400	0.740	0.030	8.45	1.500	0.065
ARITH MEAN				10.6	0.030	0.019	5.675	0.553	0.017	8.21	1.333	0.015
GEOM MEAN				6.9		0.016	4.931	0.544		8.21		0.009
MINIMUM				1.0	0.005	0.006	1.210	0.420	0.005	7.87	1.000	0.002
STD DEV (GEOM *)				8.7		0.012	2.331	0.111		0.14		0.017
# SAMP IN STATISTICS				12	11	12	12	12	2	12	3	12
% SAMP (EXCLUDED)					8				81		72	

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB	ZNUT
SAMPLE DATE	HR	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
YYMMDD	LMT					

830110	1035	31304	0.033	4<	2.7	2.40	0.0100<
830215	1030	31317	0.021	4<	4.1	1.69	0.0400
830315	1035	31330	0.021	4<	2.7	1.86	0.0100<
830412	1035	31343	0.040	4	7.2	4.90	0.0100<
830510	1050	31356	0.018	4<	3.4	2.70	0.0100<
830614	1040	31369	0.016	4<	3.0	1.67	0.0100<
830712	1035	31382	0.020	4<	2.3	1.76	0.0100<
830809	1025	31395	0.042	148	5.5	5.60	0.0100<
830907	1030	31408	0.016	4<	1.3	1.21	
831011	1020	31421	0.016		0.6	1.18	0.001 <
831115	1010	31434	0.015		0.5	0.98	0.002
831212	1035	31447	0.171	16	92.9	56.00	0.015

MAXIMUM		0.171	148	92.9	56.00	0.0400
ARITH MEAN		0.036	56	10.5	6.83	0.019
GEOM MEAN		0.026		3.2	2.67	
MINIMUM		0.015	4	0.5	0.98	0.002
STD DEV (GEOM *)		0.044		26.0	15.55	
# SAMP IN STATISTICS		12	3	12	12	3
% SAMP (EXCLUDED)			70			72

## 1983 WATER QUALITY DATA REGION 1

189

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: AT FIRST CONCESSION WEST OF SEAFORTH  
 STATION TYPE: RIVER FLOW GAUGE FED 02FF007

STATION ID: 08-0040-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 32 44.80 LONG: 081 25 50.77

U T M: 17 0465200.0 4821300.0 4

REGION: 01

DISTANCE: 45.382

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL
					TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MF
					AS O	AS CL-	AT 25 C	AS CU	AS O	CNT	CNT
					AS CAC03					/100ML	/100ML
SAMPLE	DATE	DATE	DEPTH	PROJECT	TOTAL						
YYMMDD	HOUR	NUMBER	M	SUB-PROJ	MG/L						
YYMMDD	LMT	NUMBER	M	CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	
830110	0950	31302	0.30	0101	268.0	0.91	24.500	650.0	0.0100<	13.0	64
830215	0950	31315	0.30	0101	254.0	1.28	22.000	640.0	0.0100	12.5	600>
830315	0950	31328	0.30	0101	256.0	1.88	22.500	625.0	0.0100<	10.0	20
830412	0950	31341	0.30	0101	257.0	1.00	17.500	610.0	0.0100	12.0	170
830510	1005	31354	0.30	0101	237.0	0.60	16.000	590.0	0.0100	12.5	10AID
830614	0945	31367	0.30	0101	206.0	1.02	20.000	525.0	0.0500	11.0	8
830712	0945	31380	0.30	0101	178.0	1.41	27.500	535.0	0.0100	9.0	332
830809	0940	31393	0.30	0101	215.0	1.21	27.500	550.0	0.0100	8.5	600>
830907	0940	31406	0.30	0101	181.0	1.53	43.000	600.0	0.017	9.5	
831011	0940	31419	0.30	0101	281.0	0.29	26.000	675.0	0.0030	12.5	
831115	0930	31432	0.30	0101	293.0	1.50	40.500	735.0	0.004	15.0	
831212	0950	31445	0.30	0101	257.0	2.49	23.500	635.0	0.004	14.5	450
		MAXIMUM	0.30		293.0	2.49	43.000	735.0	0.0500	15.0	450
		ARITH MEAN	0.30		240.2	1.26	25.875	614.2	0.013	11.7	145
		GEOM MEAN			237.4	1.12	24.820	611.5		11.5	155
		MINIMUM	0.30		178.0	0.29	16.000	525.0	0.0030	8.5	8
		STD DEV (GEOM *)			37.4	0.58	8.249	60.3		2.1	
		# SAMP IN STATISTICS	12		12	12	12	12	10	12	8
		% SAMP (EXCLUDED)							16		11
*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
					NH3-N			K'DAHL N			
					TOTAL	N02-N	N03-N	TOTAL	LEAD		P04
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P
SAMPLE	DATE	DATE	FLOW	STREAM	WATER						
YYMMDD	HOUR	NUMBER	M3	COND.	TEMP						
YYMMDD	LMT	NUMBER	/S		DEG.C						
830110	0950	31302	2.960	6	1.5	0.020	0.018	7.300	0.450	0.030<	8.03
830215	0950	31315	3.000	4	0.5	0.120	0.026	7.700	0.820	0.030<	8.01
830315	0950	31328	2.560	9	4.0	0.175	0.028	5.000	0.960	0.030<	8.07
830412	0950	31341	10.600	6	6.5	0.025	0.034	8.200	0.540	0.030	8.08
830510	1005	31354	8.320	6	7.5	0.020	0.022	8.600	0.460	0.030<	8.19
830614	0945	31367	1.770	6	23.0	0.030	0.128	4.300	0.580	0.030<	8.09
830712	0945	31380	0.335	5	23.0	0.050	0.042	3.000	0.880	0.030<	8.14
830809	0940	31393	1.870	6	22.0	0.040	0.045	2.900	0.660	0.030<	7.97
830907	0940	31406	0.198	6	20.0	0.075	0.050	0.180	0.830	0.003<	7.95
831011	0940	31419	2.150	6	10.5	0.010	0.041	6.100	0.540	0.003<	8.26
831115	0930	31432	3.070	6	2.0	0.780	0.026	4.900	1.370	0.003<	7.84
831212	0950	31445	24.300	3 9	1.5	0.350	0.030	8.300	1.010	0.003	7.68

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

190

B.O.W./ SITE: BAYFIELD RIVER  
 SAMPLE POINT: AT FIRST CONCESSION WEST OF SEAFORTH  
 STATION TYPE: RIVER FLOW GAUGE FED 02FF007

STATION ID: 08-0040-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 32 44.80 LONG: 081 25 50.77 U T M: 17 0465200.0 4821300.0 4 REGION: 01 DISTANCE: 45.382

*=INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR PO4 FIL.REAC
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	MG/L AS P

MAXIMUM		24.300		23.0	0.780	0.128	8.600	1.370	0.030	8.26	0.097
ARITH MEAN		5.094		10.2	0.141	0.041	5.540	0.758	0.016	8.03	0.023
GEOM MEAN		2.536		5.7	0.061	0.035	4.233	0.717		8.02	0.016
MINIMUM		0.198		0.5	0.010	0.018	0.180	0.450	0.003	7.68	0.002
STD DEV (GEOM *)		6.781		9.2	0.223	0.029	2.638	0.273		0.16	0.025
# SAMP IN STATISTICS		12		12	12	12	12	12	2	12	12
% SAMP (EXCLUDED)									83		

*=INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	SSO4UR	TCHF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	SULPHATE UNF.REAC MG/L AS S04	MF CNT /100ML	MF BCKGRD CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830110	0950	31302	0.038	4<	3.3	1900	4300	3.70	0.0100<
830215	0950	31315	0.039	4<	20.2	430	2400	3.10	0.0100
830315	0950	31328	0.038	4	4.4	540C	3600	3.60	0.0100<
830412	0950	31341	0.032	4<	12.4	1100	11200	4.90	0.0100<
830510	1005	31354	0.022	4<	2.6	1200	15200	1.64	0.0100<
830614	0945	31367	0.030	4<	2.3	300	2340	1.05	0.0200
830712	0945	31380	0.066	4<	6.9	200.000	1000C	26500	4.80
830809	0940	31393	0.049	76	3.6	7000C	89000	4.90	0.0100<
830907	0940	31406	0.060		7.1			4.20	0.001 <
831011	0940	31419	0.024		0.7			1.70	0.002
831115	0930	31432	0.054		2.2			2.30	0.003
831212	0950	31445	0.185	28	52.9	2200	6100	29.00	0.008
MAXIMUM		0.185	76	52.9	200.000	7000	89000	29.00	0.0200
ARITH MEAN		0.053	36	9.9	200.000	1741	17849	5.41	0.009
GEOM MEAN		0.044		5.1		1116	8421	3.54	
MINIMUM		0.022	4	0.7	200.000	300	2340	1.05	0.002
STD DEV (GEOM *)		0.044		14.6		3*	3*	7.55	
# SAMP IN STATISTICS		12	3	12	1	9	9	12	6
% SAMP (EXCLUDED)			66						50

## 1983 WATER QUALITY DATA REGION 1

191

B.O.W./ SITE: SILVER CREEK  
 SAMPLE POINT: HWY 8, SEAFORTH  
 STATION TYPE: RIVER

STATION ID: 08-0040-011-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: BAYFIELD RIVER

STORET CODE: 02  
 002  
 0370

LAT: 43 33 01.63 LONG: 081 22 57.09 U T M: 17 0469100.0 4821800.0 4 REGION: 01 DISTANCE: 48.430

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR
							FECAL	FECAL			NH3-N
							COLIFORM	STREPCUS			TOTAL
							MF	MF			FIL.REAC
							CNT	CNT			MG/L
							/100ML	/100ML			AS N
SAMPLE	DATE HOUR	SAMPLE	DEPTH	PROJECT	ALK	CHLORIDE	CONDUCT.				
DATE HOUR	YYMMDD LMT	NUMBER	M	SUB-PROJ	TOTAL	UNF. REAC	25C				
DATE HOUR	YYMMDD LMT	NUMBER	M	CODE	MG/L	MG/L	UMHQ/CM				
DATE HOUR	YYMMDD LMT	NUMBER	M	CODE	AS CAC03	AS CL-	AT 25 C				
830110	0830	31301	0.30	0101	280.0	27.500	725.0	40	710	6	0.025
830215	0725	31314	0.30	0101	240.0	26.000	700.0	24	28	6	0.005<
830315	0935	31327	0.30	0101	251.0	27.000	720.0	28	4<	6	0.010
830412	0935	31340	0.30	0101	251.0	22.000	660.0	232	160	6	0.065
830510	0945	31353	0.30	0101	243.0	21.000	650.0	4	4<	5	0.020
830614	0930	31366	0.30	0101	211.0	28.500	680.0	256	12	8	0.020
830712	0930	31379	0.30	0101	181.0	50.000	950.0	600>	536	7	0.060
830809	0920	31392	0.30	0101	229.0	47.500	920.0	1500>	850	8	0.050
830907	0925	31405	0.30	0101	222.0	51.000	999.0		8	8	0.065
831011	0925	31418	0.30	0101	287.0	30.500	785.0		8	8	0.020
831115	0910	31431	0.30	0101	297.0	34.500	810.0		8	8	0.020
831212	0930	31444	0.30	0101	222.0	20.000	600.0	1100	350	3 9	0.140
MAXIMUM		0.30			297.0	51.000	999.0	1100	850		0.140
ARITH MEAN		0.30			242.8	32.125	766.6	241	378		0.045
GEOM MEAN					240.7	30.500	757.2				6.3
MINIMUM		0.30			181.0	20.000	600.0	4	12		0.010
STD DEV (GEOM *)					33.4	11.249	128.6				6.9
# SAMP IN STATISTICS		12			12	12	12	7	7		11
% SAMP (EXCLUDED)								22	22		8

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP	SS04UR	TURB
				K'DAHL N						
				TOTAL						
				UNF. REAC						
				MG/L						
				AS N						
SAMPLE	DATE HOUR	SAMPLE	FIL. REAC	FIL. REAC	UNF. REAC	PO4	PHOSPHOR	RESIDUE	SULPHATE	TURB'ITY
DATE HOUR	YYMMDD LMT	NUMBER	MG/L	MG/L	MG/L	FIL. REAC	UNF. TOT.	PARTIC.	UNF. REAC	FTU
DATE HOUR	YYMMDD LMT	NUMBER	AS N	AS N	AS N	AS P	MG/L	MG/L	AS SO4	
830110	0830	31301	0.011	7.800	0.420	8.07	0.028	0.037	2.9	83.500
830215	0925	31314	0.016	8.500	0.510	8.03	0.011	0.021	22.9	63.000
830315	0935	31327	0.033	7.900	0.610	8.16	0.003	0.029	1.4	78.000
830412	0935	31340	0.024	9.300	0.600	8.17	0.020	0.034	1.8	43.500
830510	0945	31353	0.058	10.400	0.500	8.31	0.006	0.019	3.4	46.000
830614	0930	31366	0.073	5.900	0.550	8.13	0.005	0.010	5.2	
830712	0930	31379	0.068	2.100	0.510	7.78	0.018	0.032	5.7	
830809	0920	31392	0.036	2.200	0.560	7.77	0.014	0.049	5.4	
830907	0925	31405	0.069	2.630	0.440	7.75	0.012	0.026	1.3	
831011	0925	31418	0.021	8.400	0.650	7.99	0.055	0.054	3.0	78.000
831115	0910	31431	0.032	7.100	0.600	8.03	0.027	0.036	1.1	76.000
831212	0930	31444	0.033	11.400	2.160	7.50	0.053	0.540	403.3	33.000

(CONT'D)



## 192

STATION ID: 08-0040-011-02

STORET CODE: 02  
002  
0370

**DISTANCE: 48.430**

[illegible]

## 1983 WATER QUALITY DATA REGION 1

193

B.O.W./ SITE: BLYTH BROOK  
 SAMPLE POINT: AT SIDE ROAD, WEST OF BLYTH  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FE105

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STATION ID: 08-0056-002-02

STORET CODE: 02  
 002  
 0530

LAT: 43 44 56.36 LONG: 081 26 45.19

U T M: 17 0464100.0 4843875.0 4

REGION: 01

DISTANCE: 51.015

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	NNHTFR NH3-N TOTAL	NNO2FR	NNO3FR	
SAMPLE DATE	HOUR	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	CMF HF CNT /100ML	FSMF HF CNT /100ML	STREAM COND.	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N
830103	1200	32010	0.30	0101	12.500	560.0			8	0.085	0.016	5.580
830201	1315	32026	0.30	0101	13.500	599.0	150	1380	9	0.040	0.014	4.300
830301	1310	32042	0.30	0101	12.000	560.0			8	0.030	0.032	5.170
830405	1155	32058	0.30	0101	13.000	565.0	1500>	1500	8	0.170	0.017	4.830
830502	1300	32074	0.30	0101	11.500	474.0		4600	3	0.085	0.038	5.710
830606	1300	32090	0.30	0101	12.500	550.0	270	420	8 9	0.030	0.037	4.400
830705	1300	32106	0.30	0101	12.500	510.0	180	176	8 9	0.025	0.250	1.280
830802	1310	32122	0.30	0101	12.000	450.0	112	36	8 9	0.045	0.043	1.340
830906	1310	32138	0.30	0101	15.000	483.0			8 9	0.070	0.088	1.750
831003	1135	32154	0.30	0101	17.000	615.0			8	0.030	0.037	4.910
831101	1300	32170	0.30	0101	19.000	625.0			8	0.005<	0.015	5.100
831205	1155	32186	0.30	0101	17.000	625.0	256	128	8	0.030	0.028	6.800
MAXIMUM		0.30			19.000	625.0	270	4600		0.170	0.250	6.800
ARITH MEAN		0.30			13.958	551.3	194	1177		0.058	0.051	4.264
GEOM MEAN					13.777	548.2		441			0.034	3.748
MINIMUM		0.30			11.500	450.0	112	36		0.025	0.014	1.280
STD DEV (GEOM *)					2.454	60.4		5*			0.066	1.817
# SAMP IN STATISTICS		12			12	12	5	7	11	12	12	
% SAMP (EXCLUDED)							16		8			

*INTERIM TEST-NAME:		NNTKUR K*DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP
SAMPLE DATE	HOUR	SAMPLE NUMBER	UNF. REAC MG/L AS N	PH	PO4 PHOSPHOR UNF. TOT. MG/L AS P	CMF HF CNT /100ML	RESIDUE PARTIC. MG/L
830103	1200	32010	0.690	8.05	0.016	0.028	5.2
830201	1315	32026	0.580	8.10	0.011	0.029	5.5
830301	1310	32042	0.610	8.12	0.043	0.118	9.0
830405	1155	32058	0.860	8.17	0.019	0.046	2.9
830502	1300	32074	1.330	7.75	0.073	0.185	43.8
830606	1300	32090	0.740	8.39	0.004	0.034	2.8
830705	1300	32106	0.740	8.29	0.044	0.080	8.8
830802	1310	32122	0.580	8.54	0.011	0.034	2.2
830906	1310	32138	0.600	8.26	0.005	0.047	3.5
831003	1135	32154	0.600	8.21	0.013	0.027	3.6
831101	1300	32170	0.740	8.45	0.003	0.016	0.6
831205	1155	32186	0.700	8.06	0.013	0.025	2.7

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

194

B.O.W./ SITE: BLYTH BROOK  
 SAMPLE POINT: AT SIDE ROAD, WEST OF BLYTH  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FE105

STATION ID: 08-0356-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: HAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 44 56.36 LONG: 081 26 45.19

U T M: 17 0464100.0 4843875.0 4

REGION: 01

DISTANCE: 51.015

*=INTERIM TEST-NAME:		NNTKUR	PH	PP04FR	PPUT	PSAHF	RSP	
		K'DAHL N				PSEUDOMN		
		TOTAL		P04	PHOSPHOR	AERUG.		
SAMPLE		UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE	
DATE	HR	MG/L		MG/L	MG/L	CNT	PARTIC.	
YYMMDD	LMT	AS N	PH	AS P	AS P	/100ML	MG/L	
		MAXIMUM	1.330	8.54	0.073	0.185	52	43.8
		ARITH MEAN	0.731	8.20	0.021	0.056	28	7.5
		GEOM MEAN	0.710	8.20	0.014	0.043		4.3
		MINIMUM	0.580	7.75	0.003	0.016	4	0.6
		STD DEV (GEOM *)	0.207	0.21	0.021	0.050		11.7
		# SAMP IN STATISTICS	12	12	12	12	2	12
		% SAMP (EXCLUDED)					71	

## 195

STATION ID: 08-0056-003-02

STORET CODE: 02  
002  
0530

**DISTANCE: 77.246**

*INTERIM		TEST-NAME:	DO	FCNF FECAL COLIFORM	FEUT IRON	FSMF FECAL STREPCUS	FWFLOW STREAM FLOW	FWSTRC STREAM COND.	FNTMP WATER TEMP	HGUT MERCURY UNF.TOT.	NNHTFR NH3-N TOTAL	NNKI
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	DISOLVED OXYGEN MG/L AS O	MF CNT /100ML	UNF.TOT. MG/L AS FE	MF CNT /100ML	M3 /S		DEG.C	UG/L AS HG	FIL.REAC MG/L AS N	TOTAL N MG/L AS N
830103	1450	32015	11.5		0.0800		7.120	8	1.0		0.020	
830201	1540	32031	14.5	110	0.0500	40AID	4.200	8	0.5		0.045	
830301	1525	32047	13.0				6.460	8	5.0		0.030	
830405	1440	32063	12.5	40AID	0.4900	30AID	10.600	8	5.0		0.015	
830502	1500	32076	9.5	360	0.320	472	16.400	3	15.0	0.01<	0.050	4.836
830606	1525	32095	9.5	60AID	0.0900	10AID	5.990	8	18.0		0.025	
830705	1515	32111	7.0	68	0.1900	36	1.850	8	21.0		0.005<	
830802	1520	32127	10.0	8		4<	0.971	8	24.0		0.125	
830906	1525	32143	9.0				1.160	8	24.5		0.045	
831003	1410	32159	11.0				2.050	8	20.0		0.025	
831101	1522	32175	13.5				3.180	8	8.5			
831205		32191	13.5	32		16	6.300	8	4.0		0.040	

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

196

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: HWY 86 2 MILES N-W OF WINGHAM  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE005

STATION ID: 08-0056-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 53 45.06 LONG: 081 21 15.20

U T M: 17 0471550.0 4860150.0 4

REGION: 01

DISTANCE: 77.246

*=INTERIM TEST-NAME:		DO	FCMF	FEUT	FSMF	FNFLOW	FNSTRC	FWTEMP	HGUT	NNHTFR	NNKI
		DISOLVED	FECAL	IRON	STREPCUS	STREAM		WATER	MERCURY	NH3-N	TOTAL N
SAMPLE	DATE	OXYGEN	COLIFORM	UNF.TOT.	HF	FLOW		TEMP	UNF.TOT.	FIL.REAC	TOTAL N
YYMMDD	HOUR	MG/L	MF	MG/L	CNT	M3	COND.	DEG.C	UG/L	AS N	MG/L
	LMT	AS O	/100ML	AS FE	/100ML	/S			AS HG		AS N
		AS O									
		MAXIMUM	14.5	360	0.4900	472	16.400	24.5		0.125	4.836
		ARITH MEAN	11.2	97	0.203	101	5.523	12.2		0.042	4.836
		GEOM MEAN	11.0	56	0.149		4.009	7.4			
		MINIMUM	7.0	8	0.0500	10	0.971	0.5		0.015	4.836
		STD DEV (GEOM %)	2.3	3*	0.172		4.481	9.1			
		# SAMP IN STATISTICS	12	7	6	6	12	12		10	1
		% SAMP (EXCLUDED)				14				9	

*=INTERIM TEST-NAME:		NNKUR	NNO2FR	NNO3FR	NNTIFR	NNTKUR	PBUT	PH	PHNOL	PP04FR	PPUT
		KJELDAHL	NO2-N	NO3-N	INORG N	K'DAHL N	LEAD		PHENOLS	P04	PHOSPHOR
SAMPLE	DATE	UNF.REAC	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.
YYMMDD	HOUR	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	AS PB	UG/L	MG/L	MG/L
	LMT	AS N	AS N	AS N	AS N	AS N			PHENOL	AS P	AS P
830103	1450	32015	0.013	5.490		0.640	0.030<	8.20		0.021	0.032
830201	1540	32031	0.015	4.530		0.570	0.030<	8.07		0.011	0.021
830301	1525	32047	0.014	4.740		0.620	0.030<	8.28		0.017	0.098
830405	1440	32063	0.013	3.990		0.680		8.33		0.009	0.026
830502	1500	32076	1.090	0.026	3.670	3.746	0.030<	8.06	1.500	0.012	0.156
830606	1525	32095	0.017	3.530		0.590	0.030<	8.43		0.006	0.018
830705	1515	32111	0.131	0.770		0.690	0.030<	8.22		0.018	0.048
830802	1520	32127	0.007	0.030		0.900		8.73		0.021	0.046
830906	1525	32143	0.004	0.120		0.800	0.003<	8.58		0.002	0.067
831003	1410	32159	0.013	3.040		0.770	0.003<	8.44		0.006	0.019
831101	1522	32175					0.003<				
831205		32191	0.020	5.300		0.760	0.003<	8.16		0.012	0.034
		MAXIMUM	1.090	0.131	5.490	3.746	1.140	8.73	1.500	0.021	0.156
		ARITH MEAN	1.090	0.025	3.201	3.746	0.742	8.32	1.500	0.012	0.051
		GEOM MEAN		0.016	1.665		0.727	8.32		0.010	0.040
		MINIMUM	1.090	0.004	0.030	3.746	0.570	8.06	1.500	0.002	0.018
		STD DEV (GEOM %)		0.036	2.005		0.165	0.21		0.006	0.042
		# SAMP IN STATISTICS	1	11	11	1	11	11	1	11	11
		% SAMP (EXCLUDED)									

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

197

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: HWY 86 2 MILES N-W OF WINGHAM  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE005

STATION ID: 08-0056-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 53 45.06 LONG: 081 21 15.20

U T M: 17 0471550.0 4860150.0 4

REGION: 01

DISTANCE: 77.246

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSF RESIDUE FILTERED	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOURL LNT	SAMPLE NUMBER	MF CNT /100ML	MG/L	MG/L	MF CNT /100ML	MG/L	
830103	1450	32015		4.1			1.89	0.0100<
830201	1540	32031	4<	1.7	870C	5000	2.60	0.0200
830301	1525	32047		2.2			2.50	0.0100
830405	1440	32063	4<	1.7	280	680	1.59	
830502	1500	32076	4	397.3	8.0	1220C	8000	0.010 <
830606	1525	32095	4<	2.8	220C	3660	2.20	0.0100
830705	1515	32111	12	8.4	1300	28000	17.00	0.0100<
830802	1520	32127	4	4.3	20C	24000	2.90	
830906	1525	32143		64.9			9.90	0.002
831003	1410	32159		6.0			1.20	0.003
831101	1522	32175						0.007
831205		32191	4<	3.6	160	550	3.20	0.016
MAXIMUM		12	397.3	64.9	1300	28000	17.00	0.0200
ARITH MEAN		7	397.3	9.8	581	9984	4.71	0.010
GEOM MEAN				4.8	309	4490	3.32	
MINIMUM		4	397.3	1.7	20	550	1.20	0.002
STD DEV (GEOM *)				18.4	4*	5*	4.83	
# SAMP IN STATISTICS		3	1	11	7	7	11	7
% SAMP (EXCLUDED)		57						30

## 1983 WATER QUALITY DATA REGION 1

198

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: ONE MILE NORTH EAST OF WROXETER  
 STATION TYPE: RIVER

STATION ID: 08-0056-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STOREY CODE: 02  
 002  
 0530

LAT: 43 52 06.96 LONG: 081 09 35.71

U T M: 17 0487150.0 4857075.0 4

REGION: 01

DISTANCE: 100.420

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NNO2FR
					CHLORIDE	CONDUCT.	FECAL	FECAL			NH3-N	
SAMPLE	DATE	HOUR	SAMPLE	PROJECT	UNF. REAC	25C	COLIFORM	STREPCUS		WATER	FIL. REAC	FIL. REAC
YYMMDD		LMT	DEPTH	SUB-PROJ	MG/L	UMHO/CM	MF	MF		TEMP	MG/L	MG/L
		NUMBER	M	CODE	AS CL-	AT 25 C	CNT	CNT	STREAM	DEG.C	AS N	AS N
							/100ML	/100ML	COND.			
830103	0827	32000	0.30	0101	13.500	590.0			8	1.0	0.015	0.009
830201	0825	32016	0.30	0101	18.500	605.0	40AID	980	4	1.0	0.040	0.013
830301	0830	32032	0.30	0101	13.000	570.0			8	2.0	0.020	0.013
830405	0815	32048	0.30	0101	12.500	540.0	110	70AID	8	3.5	0.020	0.010
830502	0815	32064	0.30	0101	12.000	488.0	420	600>	8	11.0	0.035	0.016
830606	0830	32080	0.30	0101	12.500	540.0	20AID	10<	8	14.0	0.045	0.021
830705	0820	32096	0.30	0101	12.000	446.0	24	44	8	23.0	0.060	0.046
830802	0823	32112	0.30	0101	16.000	420.0	64	8	8	21.0	0.075	0.022
830906	0816	32128	0.30	0101	14.000	453.0			8	22.0	0.065	0.011
831003	0810	32144	0.30	0101	16.500	585.0			8	17.0	0.025	0.018
831101	0825	32160	0.30	0101	17.000	610.0			8	5.0	0.005	0.006
831205	0815	32176	0.30	0101	18.500	635.0	40	128	8	4.0	0.015	0.017
MAXIMUM			0.30		18.500	635.0	420	980		23.0	0.075	0.046
ARITH MEAN			0.30		14.667	540.2	103	246		10.4	0.035	0.017
GEOM MEAN					14.479	535.6	58			6.3	0.028	0.015
MINIMUM			0.30		12.000	420.0	20	8		1.0	0.005	0.006
STD DEV (GEOM %)					2.489	72.0	3*			8.7	0.022	0.010
# SAMP IN STATISTICS			12		12	12	7	5		12	12	12
% SAMP (EXCLUDED)								28				

*INTERIM TEST-NAME:		NNO3FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB
SAMPLE DATE	HOUR	SAMPLE NUMBER	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830103	0827	32000	4.840	0.590	8.11	0.013	0.020	2.4	1.75
830201	0825	32016	4.000	0.620	8.04	0.009	0.027	4<	8.40
830301	0830	32032	4.390	0.590	8.16	0.012	0.065	4.4	2.00
830405	0815	32048	3.740	0.650	8.12	0.015	0.095	4<	2.10
830502	0815	32064	2.180	0.880	8.04	0.008	0.043	4<	5.20
830606	0830	32080	2.980	0.800	8.23	0.002	0.016	4<	2.70
830705	0820	32096	1.000	0.710	8.17	0.004	0.028	4<	2.60
830802	0823	32112	0.460	0.650	8.26	0.009	0.031	4<	2.20
830906	0816	32128	0.490	0.600	8.19	0.005	0.025	2.5	1.20
831003	0810	32144	2.530	0.750	8.21	0.003	0.018	5.1	1.30
831101	0825	32160	3.340	0.760	8.16	0.001	0.011	2.0	1.70
831205	0815	32176	4.400	0.670	8.09	0.018	0.032	4<	1.70

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

199

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: ONE MILE NORTH EAST OF WROXETER  
 STATION TYPE: RIVER

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STATION ID: 08-0056-004-02

STORET CODE: 02  
 002  
 0530

LAT: 43 52 06.96 LONG: 081 09 35.71 U T M: 17 0487150.0 4857075.0 4 REGION: 01 DISTANCE: 100.420

*=INTERIM	TEST-NAME:	NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
		NO3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN		
SAMPLE		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE	TURB'ITY
DATE	HOURL	MG/L	MG/L		MG/L	MG/L	HF	PARTIC.	
YYMMDD	LMT	AS N	AS N	PH	AS P	AS P	CNT	MG/L	FTU
		MAXIMUM	4.840	0.880	8.26	0.018	0.095	9.3	8.40
		ARITH MEAN	2.862	0.689	8.15	0.008	0.034	4.1	2.74
		GEOM MEAN	2.255	0.684	8.15	0.006	0.029	3.6	2.30
		MINIMUM	0.460	0.590	8.04	0.001	0.011	2.0	1.20
		STD DEV (GEOM %)	1.548	0.092	0.07	0.005	0.024	2.3	2.07
		# SAMP IN STATISTICS	12	12	12	12	12	12	12
		% SAMP (EXCLUDED)							



## 1983 WATER QUALITY DATA REGION 1

200

B.O.W./ SITE: LITTLE MAITLAND RIVER  
 SAMPLE POINT: HWY.23 3 MILES S-W OF PALMERSTON  
 STATION TYPE: RIVER

STATION ID: 08-0056-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 48 53.16 LONG: 080 53 14.46

U T M: 17 0509060.0 4851090.0 4

REGION: 01

DISTANCE: 131.963

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL
				ALK	5 DAY	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS
SAMPLE	DATE	SAMPLE	PROJECT	TOTAL	TOT.DEM.	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
DATE	TIME	NUMBER	SUB-PROJ	MG/L	MG/L	AS CL-	UMHO/CM	AS CU	AS O	CNT	CNT
YYMMDD	LMT		CODE	AS CAC03	AS O		AT 25 C			/100ML	/100ML
830103	0905	32002	0101	307.0	3.62	31.500	740.0	0.0100	8.0		
830201	0905	32018	0101	322.0	5.04	112.000	1010.0	0.0200	6.5	1500>	780
830301	0915	32034	0101	298.0	2.76	28.500	800.0	0.0100	9.0		
830405	0850	32050	0101	292.0	1.90	29.000	690.0	0.0100<	10.0	8000	680
830502	0935	32066	0101	228.0	3.59	19.500	540.0	0.0100	7.0	7900	1500>
830606	0910	32082	0101	312.0	5.05	35.000	720.0	0.0100	5.0	1500>	500
830705	0855	32098	0101	238.0	6.58	18.000	720.0	0.0100<	3.5	59000>	1500>
830802	0943	32114	0101	307.0	7.00>	83.000	920.0	0.0100	4.0	100<	30AID
830906	0900	32130	0101	333.0	15.90	108.000	1105.0	0.011	3.0		
831003	0850	32146	0101	363.0	14.80	81.000	970.0	0.003	2.5		
831101	0917	32162	0101	343.0	4.48	62.000	920.0	0.007	5.0		
831205	0855	32178	0101	308.0	2.36	69.500	890.0		2.5	1010	600>
		MAXIMUM	0.30	363.0	15.90	112.000	1105.0	0.0200	10.0	8000	780
		ARITH MEAN	0.30	304.2	6.01	56.417	835.4	0.010	5.5	5637	497
		GEOM MEAN		301.8		46.859	820.6		4.9		
		MINIMUM	0.30	228.0	1.90	18.000	540.0	0.003	2.5	1010	30
		STD DEV (GEOM *)		38.8		33.996	160.7		2.6		
		# SAMP IN STATISTICS	12	12	11	12	12	9	12	3	4
		% SAMP (EXCLUDED)			8			18		57	42

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH	PP04FR	PPUT	
				NH3-N	NO2-N	NO3-N	K'DAHL N	LEAD		P04	PHOSPHOR	
				TOTAL	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	
SAMPLE	DATE	SAMPLE	STREAM	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	
DATE	TIME	NUMBER	COND.	AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P	
YYMMDD	LMT											
830103	0905	32002	8	1.0	1.250	0.086	4.710	2.000	0.030<	7.73	0.240	0.350
830201	0905	32018	8	2.0	3.370	0.077	3.520	4.650	0.030<	7.56	0.710	0.860
830301	0915	32034	8	2.5	0.590	0.740	4.110	1.970	0.030<	7.48	0.290	0.330
830405	0850	32050	8	4.0	0.840	0.052	4.300	1.580	0.030<	7.68	0.235	0.270
830502	0935	32066	8	11.0	0.385	0.085	3.520	1.780	0.030<	7.59	0.159	0.295
830606	0910	32082	8	15.0	1.200	0.189	3.700	2.300	0.030<	7.77	0.330	0.360
830705	0855	32098	8	16.0	0.005	0.330	5.200	1.360	0.030<	7.57	0.960	1.150
830802	0943	32114	8	22.0	2.300	6.800	0.300	9.850	0.030<	7.74	2.350	3.350
830906	0900	32130	8	20.0	6.750	2.500	4.000	8.500	0.003<	7.69	3.500	3.500
831003	0850	32146	8	15.0		0.295	0.930	0.950	0.003	7.63	1.600	
831101	0917	32162	8	7.0	3.620	0.110	2.890		0.003<	7.68	0.870	1.100
831205	0855	32178	8	4.0	1.320	0.085	4.520	2.250		7.64	0.400	0.410

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

201

B.O.W./ SITE: LITTLE MAITLAND RIVER  
 SAMPLE POINT: HWY.23 3 MILES S-W OF PALMERSTON  
 STATION TYPE: RIVER

STATION ID: 08-0056-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 48 53.16 LONG: 080 53 14.46 U T M: 17 0509060.0 4851090.0 4 REGION: 01 DISTANCE: 131.963

*=INTERIM TEST-NAME:		FNSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR P04	PPUT PHOSPHOR
SAMPLE DATE	HHMM	NUMBER	TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
MAXIMUM			22.0	6.750	6.800	5.200	9.850	0.003	7.77	3.500	3.500
ARITH MEAN			10.0	1.966	0.946	3.475	3.381	0.003	7.65	0.970	1.089
GEOM MEAN			6.8	0.911	0.251	2.852	2.544		7.65	0.610	0.692
MINIMUM			1.0	0.005	0.052	0.300	0.950	0.003	7.48	0.159	0.270
STD DEV (GEOM *)			7.5	1.968	1.967	1.474	3.030		0.09	1.032	1.200
# SAMP IN STATISTICS			12	11	12	12	11	1	12	12	11
% SAMP (EXCLUDED)								90			

*=INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG. MF	RSP RESIDUE PARTIC. MG/L	TCMF COLIFORM TOTAL MF	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE	HHMM	CNT /100ML		CNT /100ML	CNT /100ML		
830103	0905	32002	4.5			1.61	0.0100
830201	0905	32018	2.6	39000>	75000	2.30	0.0200
830301	0915	32034	3.4			2.20	0.0200
830405	0850	32050	56	20000	21000	1.88	0.0100<
830502	0935	32066	176	7900AID	20000	10.50	0.0100
830606	0910	32082	172	30300>	55000	2.40	0.0200
830705	0855	32098	600>	462000>	360000	5.60	0.0100<
830802	0943	32114	4<	500C	240000	3.80	0.0100
830906	0900	32130	3.9			2.80	0.005
831003	0850	32146	5.5			1.60	0.005
831101	0917	32162	3.8			2.50	0.007
831205	0855	32178	8	88000	40000	1.80	
MAXIMUM		176	26.4	88000	360000	10.50	0.0200
ARITH MEAN		105	6.9	29100	115857	3.25	0.012
GEOM MEAN			4.6		66884	2.72	
MINIMUM		8	1.4	500	20000	1.60	0.005
STD DEV (GEOM *)			7.7		3*	2.55	
# SAMP IN STATISTICS		5	12	4	7	12	9
% SAMP (EXCLUDED)		28		42			18

## 1983 WATER QUALITY DATA REGION 1

202

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HAMLET OF TROWBRIDGE  
 STATION TYPE: RIVER

STATION ID: 08-0056-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 50.60 LONG: 081 01 41.91 U T M: 17 0497720.0 4841750.0 4 REGION: 01 DISTANCE: 140.975

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF	
					BOD					FECAL	FECAL	
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS	
					TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	MF	MF	
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT	
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML	
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	TOT. DEM. MG/L AS O	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF. TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	FECAL COLIFORM MF CNT /100ML	FECAL STREPCUS MF CNT /100ML
830103	1003	32005	0.30	0101	292.0	1.51	23.500	660.0	0.0100	13.0		
830201	1010	32021	0.30	0101	296.0	3.39	260.000	1400.0	0.0100	10.0	1010	310
830301	1020	32037	0.30	0101	273.0	1.93	24.500	625.0	0.0100<	12.0		
830405	0955	32053	0.30	0101	275.0	2.78	25.000	640.0	0.0100	12.0	80AID	30AID
830502	1040	32069	0.30	0101	231.0	2.12	16.000	497.0	0.0100<	8.5	670	600>
830606	1015	32085	0.30	0101	275.0	0.66	16.500	590.0	0.0100<	7.0	230	110
830705	0955	32101	0.30	0101	190.0	2.60	41.000	520.0	0.0100<	3.5	670	580
830802	1035	32117	0.30	0101	242.0	2.59	120.000	980.0	0.0100	8.0	190	100
830906	0957	32133	0.30	0101	209.0	2.60	75.000	835.0	0.015	6.0		
831003	0945	32149	0.30	0101	237.0	1.01	78.500	770.0	0.010	8.0		
831101	1027	32165	0.30	0101	287.0	0.68	37.000	705.0	0.004	12.5		
831205		32181	0.30	0101	293.0	8.18	46.000	780.0	0.017	11.0	250	270
MAXIMUM		0.30			296.0	8.18	260.000	1400.0	0.017	13.0	1010	580
ARITH MEAN		0.30			258.3	2.50	63.583	750.2	0.011	9.3	443	233
GEOM MEAN					255.9	1.99	43.715	720.4		8.8	327	
MINIMUM		0.30			190.0	0.66	16.000	497.0	0.004	3.5	80	30
STD DEV (GEOM *)					35.6	1.99	69.246	245.7		3.0	2*	
# SAMP IN STATISTICS		12			12	12	12	12	8	12	7	6
% SAMP (EXCLUDED)									33			14

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT	
				NH3-N	NO2-N	NO3-N	K'DAHL N	LEAD		P04	PHOSPHOR	
				TOTAL	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		FIL. REAC	UNF. TOT.	
				MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	
				AS N	AS N	AS N	AS N	AS PB		AS P	AS P	
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	UNF. REAC MG/L AS N	UNF. TOT. MG/L AS PB	PH	FIL. REAC MG/L AS P	UNF. TOT. MG/L AS P	
830103	1003	32005	8	1.0	0.095	0.019	5.430	0.760	0.030<	8.06	0.043	0.069
830201	1010	32021	8	0.5	0.740	0.036	6.000	1.560	0.030<	7.98	0.300	0.460
830301	1020	32037	8	2.5	0.170	0.240	3.960	1.020	0.030<	7.99	0.380	0.540
830405	0955	32053	8	5.0	0.235	0.024	3.780	1.070	0.030<	8.08	0.036	0.092
830502	1040	32069	3	12.0	0.100	0.033	2.970	0.970	0.030<	7.93	0.061	0.173
830606	1015	32085	5 8	14.0	0.015	0.034	2.620	0.700	0.030<	8.05	0.022	0.041
830705	0955	32101	5 8	19.5	0.055	0.105	0.100	1.030	0.030<	7.77	0.141	0.225
830802	1035	32117	5 8	24.5	0.045	0.003	0.010<	1.560	0.030<	8.25	0.390	0.475
830906	0957	32133	8	22.0	0.055	0.002	0.010<	1.710	0.003<	7.85	0.280	0.370
831003	0945	32149	8 5	17.0	0.004	0.016	0.890	0.900	0.003<	8.17	0.035	0.056
831101	1027	32165	8	5.5	0.005	0.018	2.900	0.750	0.003<	8.28	0.009	0.029
831205		32181	8	3.0	0.930	0.034	4.800	1.500	0.003<	8.03	0.045	0.143

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

203

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HAMLET OF TROMBRIDGE  
 STATION TYPE: RIVER

STATION ID: 08-0056-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 50.60 LONG: 081 01 41.91 U T M: 17 0497720.0 4841750.0 4 REGION: 01 DISTANCE: 140.975

**INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N TOTAL	NN03FR NO3-N TOTAL	MNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PP04FR PO4 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	AS PB	PH	AS P
MAXIMUM				24.5	0.930	0.240	6.000	1.710		8.28	0.390
ARITH MEAN				10.5	0.204	0.047	3.345	1.127		8.04	0.145
GEOM MEAN				6.2	0.068	0.023		1.077		8.04	0.078
MINIMUM				0.5	0.004	0.002	0.100	0.700		7.77	0.009
STD DEV (GEOM *)				8.7	0.305	0.066		0.358		0.15	0.149
# SAMP IN STATISTICS				12	12	12	10	12		12	12
% SAMP (EXCLUDED)							16				

**INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC. MG/L	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER					
830103	1003	32005	3.2			2.60	0.0200
830201	1010	32021	4<	2400	9400	3.80	0.0200
830301	1020	32037	5.0			2.70	0.0100<
830405	0955	32053	4<	1800	2900	3.50	0.0100<
830502	1040	32069	20	9600C	58000	22.00	0.0100<
830606	1015	32085	4<	1100	18000	1.38	0.0200
830705	0955	32101	12	1500C	36000	3.10	0.0100<
830802	1035	32117	4<	19.8	360C	24000>	4.10
830906	0957	32133	17.4			6.60	0.060
831003	0945	32149	2.4			0.98	0.003
831101	1027	32165	0.1			1.03	0.001
831205		32181	4<	2300	4900	5.90	0.006
MAXIMUM			20	26.6	9600	58000	22.00
ARITH MEAN			16	8.1	2723	21533	4.81
GEOM MEAN				4.3	1780		3.26
MINIMUM			12	0.1	360	2900	0.98
STD DEV (GEOM *)				8.4	3*		5.69
# SAMP IN STATISTICS			2	12	7	6	12
% SAMP (EXCLUDED)			71			14	41

## 204

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: HAITLAND RIVER

STORET CODE: 02  
002  
0530

**DISTANCE: 153.688**

*INTERIM		TEST-NAME:		FWSTRC	FWTEMP	NHHTFR NH3-N TOTAL	NNO2FR	NNO3FR	NHNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR	PPUT
SAMPLE DATE		HR	SAMPLE	STREAM	WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		P04	PHOSPHOR
YYMMDD	LMT	NUMBER	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PH	MG/L	MG/L
				DEG.C	AS N	AS N	AS N	AS N	AS N	AS PB		AS P	AS P
830103	1032	32006	8	1.5	0.100	0.029	7.620	0.590	0.030<	7.99	0.083	0.166	
830201	1050	32022	8	2.5	1.050	0.030	3.220	1.890	0.030<	7.80	0.043	0.122	
830301	1055	32038	8	4.0	0.160	0.075	8.930	0.770	0.030<	7.81	0.315	0.780	
830405	1030	32054	8	5.0	0.420	0.025	6.900	1.640	0.030<	7.96	0.051	0.570	
830502	1110	32070	3	11.0	0.070	0.020	12.300	0.930	0.030<	7.54	0.073	0.143	
830606	1045	32086	8	12.0	0.950	0.067	2.480	3.440	0.030<	7.54	0.595	0.920	
830705	1030	32102	8	17.0	0.005	0.700	11.100	1.220	0.030<	7.79	0.200	0.750	
830802	1107	32118	8	20.0	0.205	0.560	2.540	1.400	0.030<	7.91	0.690	1.000	
830906	1032	32134	9	20.0	4.650	0.013	0.010<	11.000	0.005	7.48	1.600	2.600	
831003	1015	32150	8	15.5	0.060	0.063	7.590	0.570	0.003<	7.91	0.137	0.255	
831101	1055	32166	8	9.0	0.005	0.135	3.500	1.620	0.003<	7.73	0.003	0.235	
831205		32182	8	4.0	2.150	0.055	5.240	4.850	0.003<	7.79	0.360	0.795	

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

205

B.O.W./ SITE: DRAINAGE DITCH  
 SAMPLE POINT: AT SIDE RD.3-4 1MI.WEST OF MILVERTON  
 STATION TYPE: RIVER

STATION ID: 08-0056-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 34 24.11 LONG: 080 56 34.92 U T M: 17 0504600.0 4824275.0 4 REGION: 01 DISTANCE: 153.688

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM COND. TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	MG/L AS P	MG/L AS P
MAXIMUM			20.0	4.650	0.700	12.300	11.000	0.005	7.99	1.600	2.600
ARITH MEAN			10.1	0.819	0.148	6.493	2.493	0.005	7.77	0.346	0.695
GEOM MEAN			7.6	0.183	0.065		1.640		7.77	0.144	0.468
MINIMUM			1.5	0.005	0.013	2.480	0.570	0.005	7.48	0.003	0.122
STD DEV (GEOM *)			6.8	1.364	0.230		2.958		0.17	0.453	0.683
# SAMP IN STATISTICS			12	12	12	11	12	1	12	12	12
% SAMP (EXCLUDED)						8		91			

*=INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	CNT /100ML	CNT /100ML	CNT /100ML		
830103	1032	32006	5.3			4.40	0.0200
830201	1050	32022	24	17400>	46000	4.30	0.0300
830301	1055	32038		5.4		4.30	0.0200
830405	1030	32054	4<	6.8	1000<	6000	2.70
830502	1110	32070	32	35.9	10700C	69000	29.00
830606	1045	32086	32	128.6	118000C	444000	135.00
830705	1030	32102	324	5.7	218000	370000	5.40
830802	1107	32118	196	9.3	45000C	510000	8.40
830906	1032	32134		65.7		63.00	0.100
831003	1015	32150		6.4		2.20	0.004
831101	1055	32166		5.9		5.40	0.004
831205		32182	16	53.7	96000	55000	55.00
MAXIMUM			324	128.6	218000	510000	135.00
ARITH MEAN			104	27.9	97540	214286	26.59
GEOM MEAN				13.6		98151	10.40
MINIMUM			16	5.3	10700	6000	2.20
STD DEV (GEOM *)				38.2		5*	40.19
# SAMP IN STATISTICS			6	12	5	7	11
% SAMP (EXCLUDED)			14		28		8

## 206

STATION ID: 08-0056-013-02

STORET CODE: 02  
002  
0530

**DISTANCE: 147.090**

*INTERIM		TEST-NAME:	FWFLOW	FWSTRC	FWTEMP	NHHTFR NH3-N	NNO2FR	NNO3FR	NNTKUR K'DAHL N	PH	PP04FR	PPUT
			STREAM FLOW			TOTAL	NO2-N	NO3-N	TOTAL		P04	PHOSPHOR
SAMPLE DATE	HOOR	SAMPLE	M3	STREAM	WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.
YYMMDD	LMT	NUMBER	/S	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	PH	MG/L	MG/L
					DEG.C	AS N	AS N	AS N	AS N		AS P	AS P
830103	0950	32004	0.700	8	1.0	0.030	0.011	4.790	0.580	8.01	0.041	0.062
830201	0955	32020	0.228	8	2.0	0.145	0.018	3.280	0.700	7.96	0.039	0.068
830301	1005	32036	0.863	8	3.0	0.125	0.068	3.790	0.750	7.91	0.084	0.134
830405	0940	32052	1.020	8	4.5	0.045	0.012	3.790	0.710	8.08	0.013	0.036
830502	1025	32068	5.120	3	11.5	0.220	0.038	3.510	1.610	7.76	0.118	0.325
830606	1000	32084	0.708	9 8	14.0	0.030	0.037	2.260	0.650	8.07	0.017	0.049
830705	0940	32100	0.194	8	19.0	0.035	0.128	0.190	0.930	7.84	0.039	0.088
830802	1018	32116	0.011	8	23.0	0.150	0.055	0.130	0.960	7.85	0.046	0.126
830906	0944	32132	0.054	8	20.0	0.230	0.041	0.210	0.760	7.86	0.280	0.475
831003	0935	32148	0.128	8	16.0	0.090	0.107	1.470	0.660	7.87	0.045	0.067
831101	1013	32164	0.306	8	7.0	0.030	0.015	3.480	0.590	8.26	0.020	0.045
831205	0944	32180	0.875	8	3.0	0.025	0.018	5.300	0.630	8.01	0.020	0.042

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

207

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HIGHWAY 23, DOWNSTREAM FROM LISTOWEL  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE003

STATION ID: 08-0056-013-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 37.64 LONG: 080 58 23.46 U T M: 17 0502160.0 4841350.0 4 REGION: 01 DISTANCE: 147.090

*=INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PH	PP04FR PO4	PPUT PHOSPHOR	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
MAXIMUM		5.120		23.0	0.230	0.128	5.300	1.610	8.26	0.280	0.475	
ARITH MEAN		0.851		10.3	0.096	0.046	2.683	0.794	7.96	0.063	0.126	
GEOM MEAN		0.335		7.0	0.070	0.033	1.585	0.761	7.96	0.042	0.088	
MINIMUM		0.011		1.0	0.025	0.011	0.130	0.580	7.76	0.013	0.036	
STD DEV (GEOM *)		1.391		7.9	0.076	0.038	1.807	0.283	0.14	0.075	0.135	
# SAMP IN STATISTICS		12		12	12	12	12	12	12	12	12	
% SAMP (EXCLUDED)												

*=INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG. MF	RSP RESIDUE PARTIC. MG/L
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	CNT /100ML
830103	0950	32004	2.6
830201	0955	32020	4<
830301	1005	32036	5.3
830405	0940	32052	4<
830502	1025	32068	68
830606	1000	32084	180
830705	0940	32100	80
830802	1018	32116	12
830906	0944	32132	
831003	0935	32148	
831101	1013	32164	
831205	0944	32180	4<
MAXIMUM		180	87.4
ARITH MEAN		85	11.5
GEOM MEAN			5.3
MINIMUM		12	2.1
STD DEV (GEOM *)			24.0
# SAMP IN STATISTICS		4	12
% SAMP (EXCLUDED)		42	



## 1983 WATER QUALITY DATA REGION 1

208

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HALF MILE NORTH EAST OF LISTOMEL  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE003

STATION ID: 08-0056-014-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 44 12.43 LONG: 080 56 11.56

U T M: 17 0505110.0 4842425.0 4

REGION: 01

DISTANCE: 159.803

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWFLOW	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL FIL.REAC	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	AS N
830103	0940	32003	0.30	0101	16.500	640.0			0.700	8	1.0	0.035
830201	0945	32019	0.30	0101	21.000	658.0	300	230	0.228	8	0.5	0.115
830301	0950	32035	0.30	0101	14.000	570.0			0.863	8	2.5	0.075
830405	0925	32051	0.30	0101	15.500	600.0	150	150	1.020	8	4.5	0.050
830502	1010	32067	0.30	0101	12.000	466.0	2400	14400	5.120	3	11.0	0.185
830606	0945	32083	0.30	0101	14.500	580.0	590	120	0.708	8	13.0	0.015
830705	0930	32099	0.30	0101	28.500	470.0	600>	600>	0.194	8	19.0	0.020
830802	1005	32115	0.30	0101	43.000	460.0	70AID	60AID	0.011	8	24.0	0.010
830906	0935	32131	0.30	0101	38.000	510.0			0.054	8	23.0	0.265
831003	0925	32147	0.30	0101	275.000	620.0			0.128	8	17.0	0.085
831101	1000	32163	0.30	0101	21.500	660.0			0.306	8	6.0	0.010
831205	0930	32179	0.30	0101	20.500	655.0	192	600>	0.875	8	3.0	0.050
MAXIMUM		0.30			275.000	660.0	2400	14400	5.120		24.0	0.265
ARITH MEAN		0.30			43.333	574.1	617	2992	0.851		10.4	0.076
GEOM MEAN					25.450	568.9			0.335		6.1	0.046
MINIMUM		0.30			12.000	460.0	70	60	0.011		0.5	0.010
STD DEV (GEOM *)					73.598	78.5			1.391		8.7	0.079
# SAMP IN STATISTICS		12			12	12	6	5	12		12	12
% SAMP (EXCLUDED)							14	28				

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	NO2-N FIL.REAC MG/L AS N	NO3-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830103	0940	32003	0.011	5.290	0.560	8.01	0.039	0.047		2.80
830201	0945	32019	0.017	3.430	0.770	7.99	0.038	0.067	4<	3.70
830301	0950	32035	0.073	3.780	0.750	7.99	0.083	0.139		4.10
830405	0925	32051	0.012	3.940	0.630	8.01	0.014	0.032	4	2.00
830502	1010	32067	0.038	4.010	1.660	7.78	0.111	0.320	68	88.00
830606	0945	32083	0.037	2.560	0.650	7.93	0.010	0.031	4<	2.40
830705	0930	32099	0.350	1.700	1.130	7.70	0.026	0.079	40	7.50
830802	1005	32115	0.001<	0.010<	2.800	8.50	0.006	0.280	4<	23.00
830906	0935	32131	0.004	0.010<	1.360	7.96	0.031	0.900		2.70
831003	0925	32147	0.066	1.410	0.760	7.80	0.007	0.029		1.30
831101	1000	32163	0.019	3.930	0.760	8.03	0.001	0.025		1.80
831205	0930	32179	0.022	5.500	0.650	7.95	0.023	0.036	4<	5.10

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

209

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: HALF MILE NORTH EAST OF LISTOWEL  
 STATION TYPE: RIVER FLOW GAUGE FED 02FE003

STATION ID: 08-0056-014-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 44 12.43 LONG: 080 56 11.56 U T M: 17 0505110.0 4842425.0 4 REGION: 01 DISTANCE: 159.803

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
		NO2-N	NO3-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN		
		FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	AERUG.		
SAMPLE		MG/L	MG/L	MG/L		MG/L	MG/L	MF	RESIDUE	TURB'ITY
DATE HOUR	SAMPLE				PH	AS P	AS P	CNT	PARTIC.	FTU
YYMMDD LMT	NUMBER	AS N	AS N	AS N				/100ML	MG/L	
	MAXIMUM	0.350	5.500	2.800	8.50	0.111	0.900	68	110.6	88.00
	ARITH MEAN	0.059	3.555	1.040	7.97	0.032	0.165	37	16.1	12.03
	GEOM MEAN			0.917	7.97	0.018	0.080		6.5	4.64
	MINIMUM	0.004	1.410	0.560	7.70	0.001	0.025	4	1.0	1.30
	STD DEV (GEOM *)			0.647	0.20	0.033	0.252		31.0	24.64
# SAMP IN STATISTICS	11	10		12	12	12	12	3	12	12
% SAMP (EXCLUDED)	8	16						57		

## 1983 WATER QUALITY DATA REGION 1

210

B.O.W./ SITE: SOUTH MAITLAND RIVER  
 SAMPLE POINT: HIGHWAY 4, LONDESBOROUGH  
 STATION TYPE: RIVER

STATION ID: 08-0056-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 41 35.97 LONG: 081 29 02.19 U T M: 17 0461000.0 4837710.0 4 REGION: 01 DISTANCE: 43.451

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	FCMF	FEUT	FSMF	FWSTRC
SAMPLE DATE	HR	SAMPLE	SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	FECAL	IRON	FECAL
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL	UNF. REAC	25C	UNF. TOT.	HF	UNF. TOT.	HF
			M	CODE	MG/L	MG/L	UMHO/CM	MG/L	CNT	MG/L	CNT
					AS CAC03	AS CL-	AT 25 C	AS CU	/100ML	AS FE	/100ML
830103	1250	32011	0.30	0101	251.0	14.500	570.0	0.0200		0.2600	8
830201	1330	32027	0.30	0101	259.0	17.000	590.0	0.0100<	10AID	0.1400	8
830301	1320	32043	0.30	0101	245.0	15.000	560.0	0.0100<		0.1400	8
830405	1245	32059	0.30	0101	255.0	15.500	575.0	0.0100	16	0.0800	24
830502	1310	32075	0.30	0101	227.0	13.500	540.0	0.0100		1.1800	580
830606	1315	32091	0.30	0101	219.0	14.000	520.0	0.0100<	40	0.1000	30AID
830705	1320	32107	0.30	0101	196.0	15.000	430.0	0.0100<	212	0.2500	112
830802	1325	32123	0.30	0101	170.0	11.500	435.0	0.0100	116	0.1300	20
830906	1325	32139	0.30	0101	170.0	13.500	383.0	0.001			8
831003	1145	32155	0.30	0101	201.0	20.000	505.0			0.055	8
831101	1316	32171	0.30	0101	235.0	20.000	520.0	0.009		0.070	8
831205		32187	0.30	0101	268.0	20.000	650.0	0.011	40	0.087	96
		MAXIMUM	0.30		268.0	20.000	650.0	0.0200	212	1.1860	580
		ARITH MEAN	0.30		224.7	15.792	523.2	0.010	72	0.227	129
		GEOM MEAN			222.2	15.562	517.8		43	0.143	62
		MINIMUM	0.30		170.0	11.500	383.0	0.001	10	0.055	20
		STD DEV (GEOM *)			33.8	2.856	76.0		3*	0.323	3*
		# SAMP IN STATISTICS	12		12	12	12	7	6	11	7
		% SAMP (EXCLUDED)						36			

*INTERIM TEST-NAME:		FWTEMP	NNHTFR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH	PHNOL	PP04FR	PPUT	
SAMPLE DATE	HR	WATER	NH3-N	NH2-N	NH3-N	K'DAHL N	LEAD		PHENOLS	PO4	PHOSPHOR	
YYMMDD	LMT	TEMP	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		UNF-REAC	FIL. REAC	UNF. TOT.	
		DEG. C	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	
			AS N	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P	AS P	
830103	1250	32011	1.0	0.010	0.011	6.590	0.580	0.030<	8.14	1.000<	0.015	0.029
830201	1330	32027	2.0	0.060	0.014	5.700	0.510	0.030<	8.05	1.000<	0.010	0.022
830301	1320	32043	5.5	0.010	0.013	7.190	0.490	0.030<	8.25		0.007	0.038
830405	1245	32059	5.5	0.015	0.016	5.700	0.500	0.030<	8.32	1.000<	0.290	0.530
830502	1310	32075	11.5	0.055	0.036	8.010	0.890	0.030<	7.92	1.000	0.016	0.085
830606	1315	32091	16.0	0.030	0.036	6.400	0.690	0.030<	8.32	1.000	0.012	0.017
830705	1320	32107	20.0	0.005	0.096	0.850	0.560	0.030<	8.03	1.000	0.006	0.024
830802	1325	32123	24.0	0.030	0.117	5.000	0.910	0.030<	8.27	1.500	0.002	0.060
830906	1325	32139	23.0	0.040	0.003	0.190	0.270	0.003<	8.27	2.000	0.007	0.014
831003	1145	32155	18.0	0.025	0.015	4.030	0.550		8.16	1.000<	0.004	0.015
831101	1316	32171	8.5	0.005<	0.011	7.200	0.660	0.003<	8.30	2.500	0.001	0.010
831205		32187	4.0	0.015	0.022	9.700	0.550	0.003<	8.15	2.000	0.005	0.017

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

211

B.O.W./ SITE: SOUTH MAITLAND RIVER  
 SAMPLE POINT: HIGHWAY 4, LONDESBOROUGH  
 STATION TYPE: RIVER

STATION ID: 08-0056-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 41 35.97 LONG: 081 29 02.19

U T M: 17 0461000.0 4837710.0 4

REGION: 01

DISTANCE: 43.451

*=INTERIM TEST-NAME:		FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC MG/L AS N	NNO3FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER DEG.C	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	PHENOL	P04 MG/L AS P	PHOSPHOR MG/L AS P
MAXIMUM		24.0	0.060	0.117	9.700	0.910			8.32	2.500	0.290	0.530
ARITH MEAN		11.6	0.027	0.032	5.547	0.597			8.18	1.571	0.031	0.072
GEOM MEAN		8.1		0.020	4.022	0.572			8.18		0.008	0.032
MINIMUM		1.0	0.005	0.003	0.190	0.270			7.92	1.000	0.001	0.010
STD DEV (GEOM *)		8.3		0.036	2.763	0.175			0.13		0.082	0.146
# SAMP IN STATISTICS		12	11	12	12	12			12	7	12	12
% SAMP (EXCLUDED)			8							36		

*=INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER			
830103	1250	32011	5.8	5.40	0.0100<
830201	1330	32027	4<	3.5	4.30
830301	1320	32043		8.7	5.80
830405	1245	32059	4<	3.1	2.00
830502	1310	32075	4	25.1	32.00
830606	1315	32091	4<	3.0	3.70
830705	1320	32107	4<	7.6	4.80
830802	1325	32123	4<	4.7	4.10
830906	1325	32139		0.4	1.60
831003	1145	32155		3.7	1.10
831101	1316	32171		1.5	1.67
831205		32187	4	3.0	3.10
MAXIMUM		4	25.1	32.00	0.0300
ARITH MEAN		4	5.8	5.80	0.014
GEOM MEAN			3.8	3.66	
MINIMUM		4	0.4	1.10	0.001
STD DEV (GEOM *)			6.5	8.40	
# SAMP IN STATISTICS		2	12	12	4
% SAMP (EXCLUDED)		71			63

## 1983 WATER QUALITY DATA REGION 1

212

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: AT HIGHWAY 21 GODERICH  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 08-0056-023-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 45 10.13 LONG: 081 42 46.68

U T M: 17 0442600.0 4844450.0 4

REGION: 01

DISTANCE: 2.736

*-INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	BOD5	CCNAUR	CCNFUR	CDUT	CLIDUR	COND25		
						BOD	CYANIDE	CYANIDE					
						5 DAY	AVAIL	FREE	CADMIUM	CHLORIDE	CONDUCT.		
						TOT. DEM.	UNF. REAC	UNF. REAC	UNF. TOT.	UNF. REAC	25C		
						MG/L	MG/L	MG/L	MG/L	MG/L	UMHO/CM		
						AS O	AS HCN	AS HCN	AS CD	AS CL-	AT 25 C		
SAMPLE DATE	YMMDD LMT	SAMPLE HOUR	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ARSENIC UNF. TOT. MG/L AS AS	TOT. DEM. MG/L AS O	CCNAUR UNF. REAC MG/L AS HCN	CCNFUR UNF. REAC MG/L AS HCN	CDUT UNF. REAC MG/L AS CD	CLIDUR UNF. REAC MG/L AS CL-	COND25 UMHO/CM AT 25 C
830103	1331		32012	0.30	0101	259.0			0.001<W	0.0020<	30.500	630.0	
830201	1420		32028	0.30	0101	254.0	0.001<		0.001<T	0.0020<	35.500	630.0	
830301			32044	0.30	0101	230.0	0.001<			0.001<W	0.0020<	102.000	830.0
830405	1320		32060	0.30	0101	249.0	0.001<					135.000	965.0
830502	1355		32079	0.30	0101	230.0	0.001<	1.53	0.001<W	0.001<W	0.0020<	49.500	640.0
830606	1355		32092	0.30	0101	226.0	0.001<				0.0020	128.000	895.0
830705	1355		32108	0.30	0101	176.0	0.001<			0.002<T	0.0020<	2.700	540.0
830802	1410		32124	0.30	0101	147.0	0.001<		0.004<T		0.0020<	120.000	740.0
830906	1400		32140	0.30	0101	143.0	0.001<		0.001<T		0.0004	475.000	1900.0
831003	1255		32156	0.30	0101	201.0	0.001<					80.000	745.0
831101	1356		32172	0.30	0101	266.0	0.001<		0.001<W	0.001<W	0.0002<	320.000	1470.0
831205			32188	0.30	0101	271.0	0.001<			0.001<W		235.000	1300.0
			MAXIMUM	0.30		271.0		1.53	0.004	0.002	0.0020	475.000	1900.0
			ARITH MEAN	0.30		221.0		1.53	0.002<A	0.001<A	0.0012	142.767	940.4
			GEOM MEAN			216.3			0.001<A	0.001<A		81.624	873.3
			MINIMUM	0.30		143.0		1.53	0.001	0.001	0.0004	2.700	540.0
			STD DEV (GEOM #)			44.7			0.001<A	0.000<A		137.881	412.0
			# SAMP IN STATISTICS	12		12		1	5	6	2	12	12
			% SAMP (EXCLUDED)								77		

*-INTERIM TEST-NAME:		CUUT	DO	FCMF	FEUT	FSMF	FMSTRC	FMTEMP	HGUT	NNHTFR	NNKI		
				FECAL		FECAL				NH3-N			
				COLIFORM	IRON	STREPCUS				TOTAL			
				MF	UNF. TOT.	MF				FIL. REAC	TOTAL N		
				CNT	MG/L	CNT				MG/L	MG/L		
				/100ML	AS FE	/100ML				AS N	AS N		
SAMPLE DATE	YMMDD LMT	SAMPLE HOUR	SAMPLE NUMBER	COPPER UNF. TOT. MG/L AS CU	DISOLVED OXYGEN MG/L AS O	COLIFORM MF CNT /100ML	IRON UNF. TOT. MG/L AS FE	STREPCUS MF CNT /100ML	FMSTRC STREAM COND.	FMTEMP WATER TEMP DEG.C	HGUT MERCURY UNF. TOT. UG/L AS HG	NNHTFR NH3-N TOTAL FIL. REAC MG/L AS N	NNKI TOTAL N MG/L AS N
830103	1331		32012	0.0100	14.0		0.0700		8	0.5	0.03<	0.005<	
830201	1420		32028	0.0100	14.5	10<	0.0300	10<	4	1.0	0.04<	0.005	
830301			32044	0.0100<	13.0		0.0400		8	6.0	0.03<	0.035	
830405	1320		32060		12.5	4	0.9900	4<	8	6.0	0.02	0.005<	
830502	1355		32079	0.010 <	8.5	204	0.370	152	3	15.0	0.01<	0.040	4.450
830606	1355		32092	0.0100<	10.5	4	0.0700	4	8	18.0	0.02<	0.025	
830705	1355		32108	0.0100<	9.5	40	0.0500	20	8	20.0	0.03	0.035	
830802	1410		32124	0.0100	11.5	24	0.1200	24	8	26.0	0.01<	0.075	
830906	1400		32140	0.008	10.0		0.045		8	25.5	0.01	0.065	
831003	1255		32156	0.002	9.5		0.026		8	20.0	0.01	0.015	
831101	1356		32172	0.011	13.0		0.027		8	9.0	0.01	0.005<	
831205			32188	0.009	14.0	20	0.045	4	8	3.0	0.01<	0.010	

( CONTD )

## 1983 WATER QUALITY DATA REGION 1

213

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: AT HIGHWAY 21 GODERICH  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 08-0056-023-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 45 10.13 LONG: 081 42 46.68 U T M: 17 0442600.0 4844450.0 4 REGION: 01 DISTANCE: 2.736

*INTERIM TEST-NAME:		CUUT	DO	FCHF	FEUT	FSMF	FWSTRC	FWTEMP	HGUT	NNHTFR	NNKI
		COPPER	DISOLVED	FECAL	IRON	FECAL			MERCURY	NH3-N	
SAMPLE		UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.	STREPCUS		WATER	UNF.TOT.	FIL.REAC	TOTAL N
DATE	HR	MG/L	MG/L	MF	MG/L	MF	STREAM	TEMP	UG/L	MG/L	MG/L
YYMMDD	LMT	AS CU	AS O	/100HL	AS FE	/100HL	COND.	DEG.C	AS HG	AS N	AS N
		MAXIMUM	0.011	14.5	204	0.9900	152	26.0	0.03	0.075	4.450
		ARITH MEAN	0.009	11.7	49	0.157	41	12.5	0.02	0.034	4.450
		GEOM MEAN		11.5		0.072		7.6			
		MINIMUM	0.002	8.5	4	0.026	4	0.5	0.01	0.005	4.450
		STD DEV (GEOM *)		2.1		0.279		9.4			
		# SAMP IN STATISTICS	7	12	6	12	5	12	5	9	1
		% SAMP (EXCLUDED)	36	14			28		58	25	
*INTERIM TEST-NAME:		NNKUR	NN02FR	NN03FR	NNTIFR	NNTKUR	PBUT	PH	PHNOL	PPO4FR	PPUT
		KJELDAHL			INORG N	K'DAHL N					
		ORGANIC	NO2-N	NO3-N	TOTAL	TOTAL	LEAD		PHENOLS	P04	PHOSPHOR
SAMPLE		UNF.REAC	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.
DATE	HR	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PH	UG/L	MG/L	MG/L
YYMMDD	LMT	AS N	AS N	AS N	AS N	AS N	AS PB		PHENOL	AS P	AS P
830103	1331	32012	0.008	5.440		0.610	0.030<	8.37		0.012	0.020
830201	1420	32028	0.007	4.200		0.460	0.030<	8.40	1.000<	0.003	0.011
830301		32044	0.010	4.590		0.530	0.030<	8.59		0.018	0.085
830405	1320	32060	0.011	3.700		0.560		8.47	1.000<	0.400	0.400
830502	1355	32079	0.010	3.580	3.640	0.850	0.030<	8.29	1.500	0.003	0.049
830606	1355	32092	0.013	3.490		0.570	0.030<	8.51	1.000	0.001<	0.011
830705	1355	32108	0.004	0.300		0.670	0.030<	8.53	1.000<	0.001<	0.017
830802	1410	32124	0.002	0.170		0.660	0.030<	8.55	3.500	0.006	0.026
830906	1400	32140	0.003	0.170		0.640	0.004	8.54	8.500	0.001	0.022
831003	1255	32156	0.010	2.790		0.580	0.003<	8.46	1.500	0.001<	0.008
831101	1356	32172	0.005	3.300		0.560	0.003<	7.46	2.000	0.001<	0.006
831205		32188	0.011	5.700		0.560	0.003<	8.35	1.000<	0.002	0.010
		MAXIMUM	0.810	0.020	5.700	3.640	0.850	8.59	8.500	0.400	0.400
		ARITH MEAN	0.610	0.009	3.119	3.640	0.604	8.38	3.000	0.056	0.055
		GEOM MEAN		0.007	1.899		0.598	8.37			0.023
		MINIMUM	0.810	0.002	0.170	3.640	0.460	7.46	1.000	0.001	0.006
		STD DEV (GEOM *)		0.005	1.944		0.097	0.30			0.111
		# SAMP IN STATISTICS	1	12	12	1	12	1	6	8	12
		% SAMP (EXCLUDED)						90	40	33	

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

214

B.O.W./ SITE: MAITLAND RIVER  
 SAMPLE POINT: AT HIGHWAY 21 GODERICH  
 STATION TYPE: RIVER COMPOSITE

STATION ID: 08-0056-023-83

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 45 10.13 LONG: 081 42 46.68

U T M: 17 0442600.0 4844450.0 4

REGION: 01

DISTANCE: 2.736

*=INTERIM		TEST-NAME:	RSF	RSP	TURB	ZNUT
SAMPLE	DATE	DATE	RESIDUE	RESIDUE	TURB'ITY	UNF.TOT.
YHMD	HR	HR	MG/L	MG/L	FTU	MG/L
YHMD	LMT	NUMBER	MG/L	MG/L	FTU	AS ZN
830103	1331	32012	385.3	3.1	1.45	0.0100<
830201	1420	32028	386.8	3.0	1.58	0.0100
830301		32044	519.0	6.1	2.90	0.0100<
830405	1320	32060	598.2	5.8	1.09	
830502	1355	32079	397.3	20.9	12.50	0.010 <
830606	1355	32092	597.7	5.1	9.60	0.0100
830705	1355	32108	323.5	5.9	57.50	0.0100<
830802	1410	32124	440.3	4.9	3.20	0.0100<
830906	1400	32140	1147.3	4.3	2.40	0.001
831003	1255	32156	507.0	3.8	1.04	0.001 <
831101	1356	32172	874.4	1.6	0.88	0.001 <
831205		32188	767.3	1.8	1.30	0.001 <
		MAXIMUM	1147.3	20.9	57.50	0.0100
		ARITH MEAN	578.7	5.5	7.95	0.007
		GEOM MEAN	539.7	4.4	2.96	
		MINIMUM	323.5	1.6	0.88	0.001
		STD DEV (GEOM *)	242.6	5.1	16.04	
		# SAMP IN STATISTICS	12	12	12	3
		% SAMP (EXCLUDED)				72

## 1983 WATER QUALITY DATA REGION 1

215

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: 0.7 MILES OF ETHEL  
 STATION TYPE: RIVER

STATION ID: 08-0056-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 04.98 LONG: 081 07 36.95 U T M: 17 0489775.0 4840350.0 4 REGION: 01 DISTANCE: 127.135

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR
						FECAL	FECAL			NH3-N	
						COLIFORM	STREPCUS			TOTAL	
						MF	MF			FIL.REAC	FIL.REAC
						CNT	CNT			MG/L	MG/L
						/100ML	/100ML			AS N	AS N
SAMPLE	DATE	NUMBER	DEPTH	PROJECT	CHLORIDE	CONDUCT.		STREAM	WATER		
YMMDD	HOUR		M	SUB-PROJ	UNF.REAC	25C		COND.	TEMP		
LMT				CODE	MG/L	UMHO/CM			DEG.C		
					AS CL-	AT 25 C					
830103	1100	32007	0.30	0101	17.000	690.0		8	0.5	0.050	0.021
830201	1120	32023	0.30	0101	42.000	760.0	690	8	0.5	0.535	0.032
830301	1125	32039	0.30	0101	17.500	660.0		8	4.0	0.030	0.119
830405	1105	32055	0.30	0101	18.500	670.0	180	8	5.0	0.070	0.022
830502	1135	32071	0.30	0101	13.000	565.0	1150	3	11.0	0.155	0.041
830606	1120	32087	0.30	0101	14.500	620.0	560	8	14.0	0.015	0.042
830705	1100	32103	0.30	0101	26.000	530.0	600>	8	20.0	0.005	0.400
830802	1130	32119	0.30	0101	37.000	580.0	150	8	23.0	0.065	0.013
830906	1103	32135	0.30	0101	43.000	565.0		8	23.0	0.080	0.006
831003	1045	32151	0.30	0101	27.000	705.0		8	17.5	0.040	0.037
831101	1131	32167	0.30	0101	23.500	730.0		8	6.5	0.005<	0.015
831205	1105	32183	0.30	0101	25.500	740.0	400	8	4.0	0.265	0.036
MAXIMUM		0.30			43.000	760.0	1150		23.0	0.535	0.400
ARITH MEAN		0.30			25.375	651.2	522		10.7	0.119	0.065
GEOM MEAN					23.554	646.9			6.3		0.033
MINIMUM		0.30			13.000	530.0	150		0.5	0.005	0.006
STD DEV (GEOM *)					10.355	77.7			8.5		0.109
# SAMP IN STATISTICS		12			12	12	6	5	12	11	12
% SAMP (EXCLUDED)							14	28		8	

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
			K'DAHL N				PSEUDONH		
			TOTAL				AERUG.		
			UNF.REAC		PO4	PHOSPHOR	MF		
			MG/L		FIL.REAC	UNF.TOT.	CNT	RESIDUE	TURB'ITY
			AS N		MG/L	MG/L	/100ML	PARTIC.	FTU
			AS N	PH	AS P	AS P		MG/L	
SAMPLE	DATE	NUMBER							
YMMDD	HOUR								
LMT									
830103	1100	32007	5.980	0.890	8.01	0.046	0.060	7.8	6.10
830201	1120	32023	5.000	1.350	7.83	0.061	0.107	6.3	7.80
830301	1125	32039	4.890	0.840	7.99	0.086	0.129	12.1	10.10
830405	1105	32055	4.230	0.860	8.07	0.027	0.056	4<	5.8
830502	1135	32071	5.860	1.460	7.55	0.098	0.255	32	79.00
830606	1120	32087	4.300	0.960	8.09	0.016	0.039	4<	5.50
830705	1100	32103	6.100	1.470	7.73	0.093	0.204	316	38.00
830802	1130	32119	0.100	1.240	7.97	0.066	0.120	4<	4.90
830906	1103	32135	0.120	0.930	8.31	0.077	0.097		2.70
831003	1045	32151	3.460	0.850	8.09	0.031	0.047	7.7	5.30
831101	1131	32167	4.600	0.840	8.19	0.011	0.029	9.0	3.30
831205	1105	32183	6.100	1.200	7.96	0.036	0.077	4<	5.30

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

216

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: 0.7 MILES OF ETHEL  
 STATION TYPE: RIVER

STATION ID: 08-0056-026-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 43 04.98 LONG: 081 07 36.95

U T M: 17 0489775.0 4840350.0 4

REGION: 01

DISTANCE: 127.135

*INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
		NO3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN		
		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE	TURB'ITY
SAMPLE DATE	YMMDD LMT	MG/L	MG/L	PH	MG/L	MG/L	CNT	PARTIC.	FTU
NUMBER	AS N	AS N	AS N	AS P	AS P	AS P	/100ML	MG/L	
MAXIMUM		6.100	1.470	8.31	0.098	0.255	316	94.0	79.00
ARITH MEAN		4.228	1.074	7.98	0.054	0.102	174	16.0	14.37
GEOM MEAN		2.632	1.049	7.98	0.044	0.084		8.7	7.69
MINIMUM		0.100	0.840	7.55	0.011	0.029	32	3.1	2.70
STD DEV (GEOM *)		2.098	0.252	0.20	0.030	0.069		25.8	22.47
# SAMP IN STATISTICS		12	12	12	12	12	2	12	12
% SAMP (EXCLUDED)							71		

## 1983 WATER QUALITY DATA REGION 1

217

B.O.W./ SITE: BELGRAVE CREEK  
 SAMPLE POINT: 3RD.CONC.W.OF HWY.NO.4 S.OF CO.RD.NO.20  
 STATION TYPE: RIVER

STATION ID: 08-0056-030-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 49 10.01 LONG: 081 26 42.60 U T M: 17 0464200.0 4851700.0 4 REGION: 01 DISTANCE: 59.222

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCHF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR
						FECAL	FECAL			NH3-N	
						COLIFORM	STREPCUS			TOTAL	
SAMPLE	DATE	SAMPLE	SAMPLE	PROJECT	CHLORIDE	CONDUCT.				FIL.REAC	FIL.REAC
DATE	DATE	NUMBER	DEPTH	SUB-PROJ	UNF.REAC	25C	MF	MF	WATER	MG/L	MG/L
YYMMDD	YYMMDD		M	CODE	MG/L	UMHO/CM	CNT	CNT	TEMP	AS N	AS N
LMT	LMT				AS CL-	AT 25 C	/100ML	/100ML	DEG.C		
830103	1145	32009	0.30	0101	12.000	570.0			8	1.0	0.005
830201	1200	32025	0.30	0101	15.500	580.0	10AID	10<	8	2.0	0.015
830301	1210	32041	0.30	0101	11.500	545.0			8	5.0	0.005
830405	1140	32057	0.30	0101	11.500	540.0	16	4	8	5.0	0.020
830502	1210	32073	0.30	0101	9.000	470.0	404	544	3	11.0	0.025
830606	1155	32089	0.30	0101	10.500	540.0	370	58	8	14.0	0.010
830705	1145	32105	0.30	0101	12.000	545.0	528	268	8	19.0	0.020
830802	1300	32121	0.30	0101	12.000	510.0	372	100	8	23.0	0.050
830906	1145	32137	0.30	0101	11.500	540.0			8	21.5	0.040
831003	1120	32153	0.30	0101	14.500	595.0			8	16.0	0.015
831101	1253	32169	0.30	0101	14.500	640.0			8	8.5	0.005<
831205	1140	32185	0.30	0101	15.000	600.0	48	20	8	4.0	0.005
MAXIMUM		0.30			15.500	640.0	528	544		23.0	0.050
ARITH MEAN		0.30			12.458	556.2	250	166		10.8	0.019
GEOM MEAN					12.313	554.6	112			7.6	0.011
MINIMUM		0.30			9.000	470.0	10	4		1.0	0.005
STD DEV (GEOM %)					1.982	44.5	5*			7.7	0.013
# SAMP IN STATISTICS		12			12	12	7	6		12	11
% SAMP (EXCLUDED)								14		8	12

*=INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP
			K'DAHL N				
			TOTAL				
SAMPLE	DATE	SAMPLE	FIL.REAC	UNF.REAC	P04	PHOSPHOR	RESIDUE
DATE	DATE	NUMBER	MG/L	MG/L	FIL.REAC	UNF.TOT.	PARTIC.
YYMMDD	YYMMDD		AS N	AS N	MG/L	MG/L	MG/L
LMT	LMT				AS P	AS P	
830103	1145	32009	5.390	0.440	8.13	0.008	0.013
830201	1200	32025	4.500	0.500	8.18	0.005	0.010
830301	1210	32041	4.780	0.460	8.28	0.006	0.075
830405	1140	32057	4.140	0.560	8.18	0.003	0.014
830502	1210	32073	3.380	0.920	7.93	0.016	0.069
830606	1155	32089	3.300	0.500	8.38	0.001	0.014
830705	1145	32105	2.000	0.420	8.16	0.006	0.023
830802	1300	32121	1.510	0.610	8.34	0.004	0.027
830906	1145	32137	1.710	0.430	8.18	0.007	0.021
831003	1120	32153	3.990	0.530	8.33	0.003	0.010
831101	1253	32169	4.200	0.640	8.36	0.001	0.009
831205	1140	32185	5.500	0.540	8.16	0.003	0.011

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

218

B.O.W./ SITE: BELGRAVE CREEK  
 SAMPLE POINT: 3RD.CONC.W.OF HWY.NO.4 S.OF CO.RD.NO.20  
 STATION TYPE: RIVER

STATION ID: 08-0056-030-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 49 10.01 LONG: 081 26 42.60 U T M: 17 0464200.0 4851700.0 4 REGION: 01 DISTANCE: 59.222

*=INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP
		NO3-N	K'DAHL N		P04	PHOSPHOR	
		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	RESIDUE
SAMPLE DATE	YEAR	MG/L	MG/L		MG/L	MG/L	PARTIC.
YYMMDD	LMT	AS N	AS N	PH	AS P	AS P	MG/L
MAXIMUM		5.500	0.920	8.38	0.016	0.075	15.2
ARITH MEAN		3.700	0.546	8.22	0.005	0.025	3.5
GEOM MEAN		3.419	0.533	8.22	0.004	0.019	2.4
MINIMUM		1.510	0.420	7.93	0.001	0.009	0.4
STD DEV (GEOM *)		1.360	0.137	0.13	0.004	0.023	3.9
# SAMP IN STATISTICS		12	12	12	12	12	12
% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 1

219

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.16 WEST OF BRUSSELS  
 STATION TYPE: RIVER

STATION ID: 08-0056-031-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 46 18.21 LONG: 081 18 33.77 U T M: 17 0475100.0 4846350.0 4 REGION: 01 DISTANCE: 104.283

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	FCMF	FMSF	FWSTRC
					BOD				FECAL	FECAL	
					5 DAY	CHLORIDE	CONDUCT.	COPPER	COLIFORM	STREPCUS	
					TOT.DEM.	UNF.REAC	25C	UNF.TOT.	MF	MF	
					MG/L	MG/L	UMHO/CM	MG/L	CNT	CNT	
					AS O	AS CL-	AT 25 C	AS CU	/100ML	/100ML	STREAM
					AS CAC03						COND.
SAMPLE	DATE	TIME	SAMPLE	DEPTH	PROJECT	TOTAL					
DATE	DATE	TIME	NUMBER	M	SUB-PROJ	MG/L					
YYMMDD	YYMMDD	LMT	NUMBER		CODE	AS					
830103	1130		32008	0.30	0101	288.0	0.50	15.500	660.0	0.0200	8
830201	1140		32024	0.30	0101	285.0	0.80	21.000	670.0	0.0100<	8
830301	1150		32040	0.30	0101	272.0	1.20	14.500	620.0	0.0100	8
830405	1120		32056	0.30	0101	280.0	1.46	16.500	630.0	0.0100	8
830502	1150		32072	0.30	0101	248.0	1.52	12.000	560.0	0.0100<	3
830606	1140		32088	0.30	0101	249.0	0.63	13.500	585.0	0.0100	8
830705	1125		32104	0.30	0101	218.0	1.28	23.500	520.0	0.0100<	8
830802	1200		32120	0.30	0101	165.0	0.97	26.500	438.0	0.0100	8
830906	1130		32136	0.30	0101	159.0	0.90	33.000	495.0	0.001	8
831003	1105		32152	0.30	0101	277.0	0.50	22.500	675.0	0.007	8
831101	1150		32168	0.30	0101	289.0	0.49	23.000	695.0	0.003	8
831205			32184	0.30	0101	298.0	1.20	21.000	710.0	0.009	8
			MAXIMUM	0.30		298.0	1.52	33.000	710.0	0.0200	
			ARITH MEAN	0.30		252.3	0.95	20.208	604.8	0.009	
			GEOM MEAN			247.4	0.88	19.386	598.8		
			MINIMUM	0.30		159.0	0.49	12.000	438.0	0.001	
			STD DEV (GEOM *)			47.7	0.38	6.099	86.2		
			# SAMP IN STATISTICS	12		12	12	12	9	6	6
			% SAMP (EXCLUDED)						25	14	14
*=INTERIM TEST-NAME:		FWTEMP	NNHFR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH	PP04FR	PPUT	PSAMF
			NH3-N			K'DAHL N					PSEUDOMN
			TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04	PHOSPHOR	AERUG.
			FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	MF
			MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	CNT
			AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P	/100ML
SAMPLE	DATE	TIME	WATER								
DATE	DATE	TIME	TEMP								
YYMMDD	YYMMDD	LMT	DEG.C								
830103	1130		0.5	0.025	0.018	6.730	0.700	0.030<	8.10	0.034	0.045
830201	1140		0.5	0.080	0.028	4.800	0.640	0.030<	8.00	0.019	0.036
830301	1150		5.0	0.020	0.022	4.980	0.580	0.030<	8.14	0.022	0.034
830405	1120		5.0	0.020	0.019	4.380	0.760	0.030<	8.13	0.010	0.033
830502	1150		12.5	0.030	0.029	5.170	1.010	0.030<	7.85	0.027	0.068
830606	1140		15.0	0.010	0.020	4.600	0.910	0.030<	8.23	0.006	0.044
830705	1125		20.0	0.045	0.067	0.830	0.690	0.030<	7.98	0.005	0.024
830802	1200		24.0	0.035	0.017	0.580	0.870	0.030<	8.58	0.002	0.023
830906	1130		23.0	0.060	0.006	0.170	0.800	0.003<	8.21	0.007	0.025
831003	1105		17.0	0.030	0.016	4.380	0.740	0.003<	8.14	0.007	0.017
831101	1150		9.5	0.005<	0.008	4.500	0.850	0.003<	8.37	0.001	0.011
831205			3.0	0.115	0.031	6.300	0.930	0.003<	8.07	0.022	0.048

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

220

B.O.W./ SITE: MIDDLE MAITLAND RIVER  
 SAMPLE POINT: AT COUNTY ROAD NO.16 WEST OF BRUSSELS  
 STATION TYPE: RIVER

STATION ID: 08-0056-031-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: MAITLAND RIVER

STORET CODE: 02  
 002  
 0530

LAT: 43 46 18.21 LONG: 081 18 33.77 U T M: 17 0475100.0 4846350.0 4 REGION: 01 DISTANCE: 104.283

*INTERIM TEST-NAME:		FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	PSAHF PSEUDOHN AERUG.	
SAMPLE DATE YYMMDD	TIME LMT	SAMPLE NUMBER	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	AS P	AS P	MF CNT /100ML

MAXIMUM		24.0	0.115	0.067	6.730	1.010		8.58	0.034	0.068	
ARITH MEAN		11.2	0.043	0.023	3.952	0.790		8.15	0.013	0.034	
GEOM MEAN		6.6		0.020	2.729	0.780		8.15	0.009	0.031	
MINIMUM		0.5	0.010	0.006	0.170	0.580		7.85	0.001	0.011	
STD DEV (GEOM *)		8.6		0.016	2.195	0.128		0.19	0.011	0.016	
# SAMP IN STATISTICS		12	11	12	12	12		12	12	12	
% SAMP (EXCLUDED)			8								

*INTERIM TEST-NAME:		RSP	TCMF COLIFORM TOTAL MF	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	TIME LMT	SAMPLE NUMBER	RESIDUE PARTIC. MG/L	CNT /100ML	CNT /100ML	

830103	1130	32008	3.0			3.10	0.0100<
830201	1140	32024	0.6	600AID	17100	2.30	0.0100<
830301	1150	32040	3.9			2.80	0.0100<
830405	1120	32056	1.9	1700	3100	2.00	0.0100<
830502	1150	32072	10.2			8.80	0.0100<
830606	1140	32088	3.7	510C	4450	2.40	0.0100<
830705	1125	32104	3.0	140C	5600	1.90	0.0100<
830802	1200	32120	1.1	40C	9400	3.30	0.0100<
830906	1130	32136	1.2			1.60	0.001
831003	1105	32152	2.2			0.83	0.004
831101	1150	32168	1.7			1.14	0.001 <
831205		32184	1.3	360	650	2.50	0.003

MAXIMUM		10.2	1700	17100	8.80	0.004
ARITH MEAN		2.8	558	6717	2.72	0.003
GEOM MEAN		2.1	319	4479	2.28	
MINIMUM		0.6	40	650	0.83	0.001
STD DEV (GEOM *)		2.6	4*	3*	2.05	
# SAMP IN STATISTICS		12	6	6	12	3
% SAMP (EXCLUDED)						75

## 1983 WATER QUALITY DATA REGION 1

221

B.O.W./ SITE: LUCKNOW RIVER  
 SAMPLE POINT: HIGHWAY 21, PORT ALBERT  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FD103

STATION ID: 08-0076-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LUCKNOW RIVER

STORET CODE: 02  
 002  
 0730

LAT: 43 52 41.94 LONG: 081 42 52.51

U T M: 17 0442590.0 4858390.0 4

REGION: 01

DISTANCE: 1.287

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	DO	FCMF	FEUT	FSMF
					ALK	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	IRON	FECAL
SAMPLE	DATE	DATE	SAMPLE	PROJECT	TOTAL	UNF. REAC	25C	UNF. TOT.	OXYGEN	COLIFORM	UNF. TOT.	STREPCUS
DATE	HR	HR	DEPTH	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MG/L	MF
YMMDD	LMT	LMT	M	CODE	AS CACO3	AS CL-	AT 25 C	AS CU	AS O	/100ML	AS FE	CNT
830103	1410	32013	0.30	0101	245.0	13.500	530.0	0.0100	12.0		0.1600	
830201	1450	32029	0.30	0101	250.0	16.500	540.0	0.0100	15.0	110	0.9000	1080
830301	1440	32045	0.30	0101	238.0	13.000	500.0	0.0100<	14.0		0.1900	
830405	1350	32061	0.30	0101	234.0	11.000	488.0	0.0100	12.0	280	0.4600	30AID
830502	1415	32077	0.30	0101	218.0	10.000	453.0	0.0100	9.0	520	2.1000	1450
830606	1425	32093	0.30	0101	266.0	12.000	500.0	0.0100<	10.0	10<	0.1700	10<
830705	1420	32109	0.30	0101	233.0	20.500	520.0	0.0100	8.5	128	0.2300	52
830802	1435	32125	0.30	0101	201.0	21.000	463.0	0.0100	9.0	24	0.3800	28
830906	1425	32141	0.30	0101	202.0	18.000	475.0	0.006	8.0		0.360	
831003	1325	32157	0.30	0101	226.0	19.500	530.0	0.047	10.5		0.330	
831101	1425	32174	0.30	0101	261.0	20.000	585.0	0.012	13.5		0.064	
831205		32190	0.30	0101	262.0	17.500	580.0	0.008		56	0.094	32
MAXIMUM			0.30		266.0	21.000	585.0	0.047	15.0	520	2.1000	1450
ARITH MEAN			0.30		236.3	16.042	513.7	0.013	11.0	186	0.453	445
GEOM MEAN					235.4	15.565	512.1		10.8		0.284	
MINIMUM			0.30		201.0	10.000	453.0	0.006	8.0	24	0.064	28
STD DEV (GEOM *)					21.9	3.957	42.1		2.4		0.565	
# SAMP IN STATISTICS			12		12	12	12	10	11	6	12	6
% SAMP (EXCLUDED)								16		14		14
*INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL	PP04FR
					NH3-N	NO2-N	NO3-N	K'DAHL N	LEAD		PHENOLS	P04
SAMPLE	DATE	DATE	STREAM	WATER	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		UNF-REAC	FIL. REAC
DATE	HR	HR	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L
YMMDD	LMT	LMT		DEG.C	AS N	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P
830103	1410	32013	8	1.0	0.005	0.005	3.300	0.540	0.030<	8.30	1.500	0.006
830201	1450	32029	4	0.5	0.005	0.008	3.090	0.520	0.030<	8.33	1.000<	0.011
830301	1440	32045	8	6.0	0.035	0.006	2.690	0.600	0.030<	8.60	0.013	
830405	1350	32061	8	6.0	0.005	0.006	2.390	0.640	0.030<	8.41	1.000<	0.310
830502	1415	32077	8	15.0	0.020	0.018	2.630	1.150	0.030<	8.18	1.000	0.014
830606	1425	32093	8	17.0	0.030	0.008	1.510	0.620	0.030<	8.55	1.000<	0.001
830705	1420	32109	8	20.0	0.025	0.017	1.140	0.560	0.030<	8.43	1.500	0.001
830802	1435	32125	8	26.0	0.035	0.007	1.010	0.600	0.030<	8.51	1.000	0.001
830906	1425	32141	8	27.0	0.020	0.007	0.840	0.410	0.003<	8.44	1.000<	0.012
831003	1325	32157	8	19.5	0.025	0.004	1.250	0.490	0.003<	8.43	1.000<	0.002
831101	1425	32174	8	9.0	0.005<	0.003	1.850	0.650	0.003	8.43	2.000	0.004
831205		32190	8	4.0	0.005<	0.004	2.700	0.590	0.003<	8.34	2.000	0.001

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

222

B.O.W./ SITE: LUCKNOW RIVER  
 SAMPLE POINT: HIGHWAY 21, PORT ALBERT  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FD103

STATION ID: 08-0076-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LUCKNOW RIVER

STORET CODE: 02  
 002  
 0730

LAT: 43 52 41.94 LONG: 081 42 52.51 U T M: 17 0442590.0 4858390.0 4 REGION: 01 DISTANCE: 1.287

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR P04 FIL.REAC	
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P	
MAXIMUM				27.0	0.035	0.018	3.300	1.150	0.003	8.60	2.000	0.310
ARITH MEAN				12.6	0.020	0.008	2.033	0.614	0.003	8.41	1.500	0.031
GEOM MEAN				7.7		0.007	1.847	0.596		8.41		0.005
MINIMUM				0.5	0.005	0.003	0.840	0.410	0.003	8.18	1.000	0.001
STD DEV (GEOM *)				9.4		0.005	0.867	0.182		0.11		0.088
# SAMP IN STATISTICS				12	10	12	12	12	1	12	6	12
% SAMP (EXCLUDED)					16				91		45	

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG. HF CNT /100HL	RSP	TURB	ZNUT
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830103	1410	32013	0.015	4.9	3.50	0.0100<
830201	1450	32029	0.038	4<	45.7	0.0100<
830301	1440	32045	0.027		12.9	0.0100<
830405	1350	32061	0.380	4<	8.8	0.0100<
830502	1415	32077	0.141	32	99.6	0.0100
830606	1425	32093	0.015	4<	6.9	0.0100
830705	1420	32109	0.022	4<	17.1	0.0100<
830802	1435	32125	0.026	4<	16.8	0.0100<
830906	1425	32141	0.034		17.9	0.003
831003	1325	32157	0.012		9.0	0.006
831101	1425	32174	0.016		1.5	0.001
831205		32190	0.010	4<	3.5	0.001 <
MAXIMUM			0.380	32	99.6	0.0100
ARITH MEAN			0.061	32	20.4	0.006
GEOM MEAN			0.030		11.3	8.62
MINIMUM			0.010	32	1.5	0.001
STD DEV (GEOM *)			0.106		27.5	24.11
# SAMP IN STATISTICS			12	1	12	5
% SAMP (EXCLUDED)				85		58

## 1983 WATER QUALITY DATA REGION 1

223

B.O.W./ SITE: LUCKNOW RIVER  
 SAMPLE POINT: CANNING STREET, VILLAGE OF LUCKNOW  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FD102

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LUCKNOW RIVER

STATION ID: 08-0076-002-02

STORET CODE: 02  
 002  
 0730

LAT: 43 57 21.61 LONG: 081 31 02.46 U T M: 17 0458490.0 4866900.0 4 REGION: 01 DISTANCE: 25.749

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	NNHTFR	NN02FR	NN03FR	
						FECAL	FECAL		NH3-N			
						COLIFORM	STREPCUS		TOTAL			
SAMPLE	DATE	SAMPLE	SAMPLE	PROJECT	CHLORIDE	CONDUCT.	HF	HF	FIL.REAC	FIL.REAC	FIL.REAC	
DATE	HOUR	NUMBER	DEPTH	SUB-PROJ	UNF.REAC	25C	CNT	CNT	AS N	AS N	AS N	
YYMMDD	LMT		M	CODE	MG/L	UMHO/CM	/100ML	/100ML	COND.	AS N	AS N	
					AS CL-	AT 25 C						
830103	1435	32014	0.30	0101	21.000	580.0			8	0.010	0.005	2.700
830201	1520	32030	0.30	0101	25.500	560.0	350	830	8	0.030	0.009	2.190
830301	1510	32046	0.30	0101	18.500	540.0			8	0.010	0.005	2.250
830405	1420	32062	0.30	0101	16.000	525.0	130	30AID	8	0.010	0.005	1.940
830502	1445	32078	0.30	0101	12.500	452.0	1240	1500>	8	0.095	0.040	2.810
830606	1510	32094	0.30	0101	22.000	570.0	450	60AID	8	0.020	0.010	1.060
830705	1455	32110	0.30	0101	26.500	580.0	600>	420	8	0.025	0.065	0.870
830802	1500	32126	0.30	0101	30.500	565.0	390	150	8	0.035	0.011	0.800
830906	1505	32142	0.30	0101	29.000	600.0			8	0.040	0.012	0.740
831003	1355	32158	0.30	0101	26.000	600.0			8	0.035	0.009	0.960
831205	1510	32189	0.30	0101	21.500	590.0	370	340	8	0.020	0.006	1.790
MAXIMUM			0.30		30.500	600.0	1240	830		0.095	0.065	2.810
ARITH MEAN			0.30		22.636	560.2	488	305		0.030	0.016	1.646
GEOM MEAN					21.954	558.6				0.024	0.011	1.468
MINIMUM			0.30		12.500	452.0	130	30		0.010	0.005	0.740
STD DEV (GEOM *)					5.523	42.8				0.024	0.019	0.787
# SAMP IN STATISTICS			11		11	11	6	6	11	11	11	
% SAMP (EXCLUDED)							14	14				

*INTERIM TEST-NAME:		NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		K'DAHL N				PSEUDOMN	
		TOTAL				AERUG.	
SAMPLE	DATE	UNF.REAC		P04	PHOSPHOR	HF	RESIDUE
DATE	HOUR	MG/L		FIL.REAC	UNF.TOT.	CNT	PARTIC.
YYMMDD	LMT	AS N	PH	MG/L	MG/L	/100ML	MG/L
				AS P	AS P		
830103	1435	0.570	8.11	0.006	0.017		6.4
830201	1520	0.480	8.15	0.009	0.023	4<	5.2
830301	1510	0.370	8.29	0.023	0.084		5.2
830405	1420	0.690	8.14	0.006	0.035	4<	3.5
830502	1445	1.370	7.82	0.044	0.140	12	39.4
830606	1510	0.500	8.49	0.510	0.570	4	3.9
830705	1455	0.590	8.28	0.013	0.030	16	7.4
830802	1500	0.520	8.46	0.006	0.024	84	3.4
830906	1505	0.470	8.34	0.026	0.037		3.4
831003	1355	0.510	8.35	0.008	0.021		7.7
831205	1510	0.660	8.12	0.026	0.035	8	1.8

(CONTD)



## 1983 WATER QUALITY DATA REGION 1

224

B.O.W./ SITE: LUCKNOW RIVER  
 SAMPLE POINT: CANNING STREET, VILLAGE OF LUCKNOW  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FD102

STATION ID: 08-0076-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LUCKNOW RIVER

STORET CODE: 02  
 002  
 0730

LAT: 43 57 21.61 LONG: 081 31 02.46

U T M: 17 0458490.0 4866900.0 4

REGION: 01

DISTANCE: 25.749

*INTERIM TEST-NAME:		NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		K'DAHL N				PSEUDOMN	
		TOTAL		PO4	PHOSPHOR	AERUG.	
SAMPLE		UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE
DATE	HR	MG/L		MG/L	MG/L	CNT	PARTIC.
YYMMDD	LMT	AS N	PH	AS P	AS P	/100ML	MG/L
MAXIMUM		1.370	8.49	0.510	0.570	84	39.4
ARITH MEAN		0.612	8.23	0.062	0.092	25	7.9
GEOM MEAN		0.576	8.23	0.018	0.046		5.4
MINIMUM		0.370	7.82	0.006	0.017	4	1.8
STD DEV (GEOM *)		0.267	0.19	0.149	0.163		10.6
# SAMP IN STATISTICS		11	11	11	11	5	11
% SAMP (EXCLUDED)						28	

## 1983 WATER QUALITY DATA REGION 1

225

B.O.N./ SITE: LITTLE SAUBLE RIVER  
 SAMPLE POINT: AT INVERHURON PROVINCIAL PARK MOE SHA1  
 STATION TYPE: RIVER

STATION ID: 08-0113-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LITTLE SAUBLE RIVER

STORET CODE: 02  
 002  
 1110

LAT: 44 17 53.83 LONG: 081 34 43.77

U T M: 17 0453825.0 4904950.0 4

REGION: 01

DISTANCE: 1.931

*=INTERIM TEST-NAME:		FWSADP	BOD5 5 DAY TOT.DEM. MG/L AS O	CLIDUR CHLORIDE UNF. REAC MG/L AS CL-	COND25 CONDUCT. 25C UMHO/CM AT 25 C	CO60 COBALT 60 MBQ/L	CS134 CESIUM 134 MBQ/L	CS137 CESIUM 137 MBQ/L	FCMF FECAL COLIFORM MF CNT /100ML	FSMF FECAL STREPCUS MF CNT /100ML	GACF GROSS ALPHA CT FILTERED MBQ/L
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M								
830110		31200	0.30	1.40	20.0	560<	560<	560<			40<
830207		31201	0.30	0.30	14.0	520	560<	560<	10<	100<	66
830307		31202	0.30	1.70	18.0	535	560<	560<	600>	124	200
830405		31203	0.30	1.65	14.5	520	560<	560<	70AID	30AID	40<
830509		31204	0.30	1.48	10.0	450	560<	560<	250	110	55
830608		31205	0.30	0.11	18.0	565	560<	560<	80AID	30AID	40<
830711		31206	0.30	0.59	16.0	545	560<	560<	64	110	40<
830803		31207	0.30	2.66	16.0	540	560<	560<	340	190	40<
830907		31208	0.30			560<	560<	560<	24	4<	80
831003		31209	0.30	0.14	16.5	590	560<	560<	160	228	40<
831101		31210	0.30	0.79	18.5	610	300<	300<	32	44	40<
831129		31211	0.30	1.40	24.5	585	300<	300<	400	1400	40
		MAXIMUM	0.30	2.66	24.5	610			400	1400	200
		ARITH MEAN	0.30	1.11	16.9	552			158	252	88
		GEOM MEAN		0.76	16.5	550					
		MINIMUM	0.30	0.11	10.0	450			24	30	40
		STD DEV (GEOM *)		0.79	3.7	47					
		# SAMP IN STATISTICS	12	11	11	11			9	9	5
		% SAMP (EXCLUDED)							18	18	58
*=INTERIM TEST-NAME:		GACP	GBCF	GBCP	NH3 TRITIUM HYDROG-3 DISINTEG /MIN	NH3 TRITIUM HYDROG-3 BQ/L	II131 IODINE 131 BQ/L	II131 IODINE 131 MBQ/L	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NN02FR NO2-N FIL.REAC MG/L AS N	NN03FR NO3-N FIL.REAC MG/L AS N
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L							
830110		31200	40<	130	40<	60	0.56<	560<	0.040	0.013	1.93
830207		31201	40<	100	40<	57	0.56<	560<	0.015	0.007	2.24
830307		31202	40<	450	62	76000	0.56<	560<	0.020	0.014	1.54
830405		31203	40<	170	40<	70	0.56<	560<	0.025	0.008	1.93
830509		31204	40<	220	45	83	0.56<	560<	0.050	0.025	3.18
830608		31205	40<	120	40<		0.56<	560<	0.010	0.004	1.33
830711		31206	40<	100	40<	92	0.56<	560<	0.040	0.021	1.34
830803		31207	40<	110	40<	130	0.56<	560<	0.035	0.024	0.78
830907		31208	40<	110	40<	110	0.56<	560<			
831003		31209	40<	80	40<	82	0.56<	560<	0.010	0.007	1.37
831101		31210	40<	80	40<	98	0.30<	300<	0.015	0.011	3.34
831129		31211	40<	110	40<	74	0.30<	300<	0.025	0.011	3.9

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

226

B.O.W./ SITE: LITTLE SAUBLE RIVER  
 SAMPLE POINT: AT INVERHURON PROVINCIAL PARK MOE SMA1  
 STATION TYPE: RIVER

STATION ID: 08-0113-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: LITTLE SAUBLE RIVER

STORET CODE: 02  
 002  
 1110

LAT: 44 17 53.83 LONG: 081 34 43.77 U T M: 17 0453825.0 4904950.0 4 REGION: 01 DISTANCE: 1.931

*=INTERIM	TEST-NAME:	GACP	GBCF	GBCP	HH3	HH3	II131	II131	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	GROSS ALPHA CT UNDISSOL MBQ/L	GROSS BETA CT FILTERED MBQ/L	GROSS BETA CT UNDISSOL MBQ/L	TRITIUM HYDROG-3 DISINTEG /MIN	TRITIUM HYDROG-3 BQ/L	IODINE 131 BQ/L	IODINE 131 MBQ/L	AS N	AS N	AS N

		MAXIMUM		450	62	76000	130		0.050	0.025	3.9
		ARITH MEAN		148	53	76000	86		0.026	0.013	2.1
		GEOM MEAN		130			83		0.023	0.011	1.9
		MINIMUM		80	45	76000	57		0.010	0.004	0.78
		STD DEV (GEOM *)		103			23		0.014	0.007	1.0
		# SAMP IN STATISTICS		12	2	1	10		11	11	11
		% SAMP (EXCLUDED)			83						

*=INTERIM	TEST-NAME:	NNTKUR K'DAHL N TOTAL UNF.REAC	PH	PPQ4FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	PSAMF PSEUDOMN AERUG. MF CNT	RSF RESIDUE FILTERED	RSP RESIDUE PARTIC.	RST RESIDUE TOTAL	TCMF COLIFORM TOTAL MF CNT	TCMFBK COLIFORM TOTAL MF BCKGRD CNT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	AS N	PH	AS P	/100ML	MG/L	MG/L	MG/L	/100ML	/100ML

830110		31200	0.58		0.041	0.070	377.8	12.6	390.4		
830207		31201	0.57	7.99	0.068	0.087	4<	320.1	10.7	330.8	900AID
830307		31202	0.60	8.51	0.050	0.102	4<	336.7	9.4	346.1	3300
830405		31203	0.70	8.18	0.062	0.095	4<	305.0	11.8	316.8	1500
830509		31204	1.18	8.17	0.034	0.22	4<	289.3	32.7	322.0	1200
830608		31205	0.46	8.14	0.005	0.024	4<	301.1	6.7	307.8	2500
830711		31206	0.38	8.18	0.017	0.059	4<	355.7	19.1	374.8	220
830803		31207	0.58	8.18	0.014	0.101	4<	329.0	29.6	358.6	2100
830907		31208					4<				170C
831003		31209	0.34	8.07	0.003	0.016	4<	362.5	6.3	368.8	2500
831101		31210	0.54	7.84	0.004	0.026	4<	404.3	1.9	406.2	1500
831129		31211	1.21	8.12	0.04	0.114	4<	402.6	34.2	436.8	2000
		MAXIMUM	1.21	8.51	0.068	0.22		404.3	34.2	436.8	3300
		ARITH MEAN	0.65	8.14	0.03	0.08		344.0	15.9	359.9	1422
		GEOM MEAN	0.60	8.14	0.02	0.07		341.9	12.0	357.9	978
		MINIMUM	0.34	7.84	0.003	0.016		289.3	1.9	307.8	170
		STD DEV (GEOM *)	0.29	0.17	0.02	0.06		39.9	11.3	40.4	3*
		# SAMP IN STATISTICS	11	10	11	11		11	11	11	11
		% SAMP (EXCLUDED)									9

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

227

B.O.W./ SITE: LITTLE SAUBLE RIVER  
SAMPLE POINT: AT INVERHURON PROVINCIAL PARK MOE SWA1  
STATION TYPE: RIVER

STATION ID: 08-0113-001-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: LITTLE SAUBLE RIVER

STORET CODE: 02  
002  
1110

LAT: 44 17 53.83 LONG: 081 34 43.77 U T M: 17 0453825.0 4904950.0 4 REGION: 01 DISTANCE: 1.931

\*=INTERIM TEST-NAME: TURB

SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	TURB'ITY FTU
--------------------------	-------------	------------------	-----------------

830110		31200	8.8
830207		31201	12.0
830307		31202	8.2
830405		31203	10.5
830509		31204	47.0
830608		31205	5.3
830711		31206	18.4
830803		31207	30.0
831003		31209	6.6
831101		31210	3.3
831129		31211	57.0

MAXIMUM	57.0
ARITH MEAN	18.8
GEOM MEAN	12.8
MINIMUM	3.3
STD DEV (GEOM *)	18.1
# SAMP IN STATISTICS	11
% SAMP (EXCLUDED)	

## 1983 WATER QUALITY DATA REGION 1

228

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: YONGE STREET, TOWN OF WALKERTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC002

STATION ID: 08-0123-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 08 04.79 LONG: 081 09 14.66 U T M: 17 0487675.0 4886625.0 4 REGION: 01 DISTANCE: 76.603

*INTERIM TEST-NAME:		FMSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FNFLOW	FNSTRC	FMTMP	NNHTFR
						FECAL	FECAL				NH3-N
						COLIFORM	STREPCUS				TOTAL
SAMPLE	DATE	SAMPLE	SAMPLE	PROJECT	CHLORIDE	CONDUCT.	MF	MF	STREAM	WATER	FIL.REAC
DATE	DATE	NUMBER	DEPTH	SUB-PROJ	UNF. REAC	25C	CNT	CNT	FLOW	TEMP	MG/L
YYMMDD	LMT		M	CODE	MG/L	UMHO/CM	/100ML	/100ML	M3	DEG.C	AS N
					AS CL-	AT 25 C			/S	COND.	
830117	1345	32510	0.30	0101	7.500	540.0	24	12	33.000	6	0.010
830221	1340	32527	0.30	0101	9.000	560.0	8	92	37.300	6	0.015
830321	1345	32546	0.30	0101	7.500	472.0	36	8	55.300	6	0.015
830418	1300	32563	0.30	0101	6.500	472.0	8	12	51.300	6	0.015
830516	1330	32580	0.30	0101	6.500	491.0	108	8	39.600	6	0.020
830620	1350	32597	0.30	0101	8.500	575.0	100	4	15.200	6	0.015
830718	1410	32614	0.30	0101	8.500	605.0	88	40	10.100	6	0.025
830829	1345	32631	0.30	0101	8.000	590.0			10.100	6	0.020
830919	1340	32648	0.30	0101	10.000	625.0			14.500	6	0.020
831017	1350	32665	0.30	0101	8.500	550.0			31.500	6	0.010
831121	1335	32682	0.30	0101	9.000	565.0			46.600	6	0.005
831219	1350	32699	0.30	0101	9.500	560.0	20	92	27.000	6	0.015
		MAXIMUM	0.30		10.000	625.0	108	92	55.300		0.025
		ARITH MEAN	0.30		8.250	550.4	49	33	30.958		0.015
		GEOM MEAN			8.181	548.3	32	18	26.560		0.014
		MINIMUM	0.30		6.500	472.0	8	4	10.100		0.005
		STD DEV (GEOM *)			1.098	49.6	3*	3*	15.884		0.005
		* SAMP IN STATISTICS	12		12	12	8	8	12		12
		% SAMP (EXCLUDED)									

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
				K'DAHL N				PSEUDOMN	
				TOTAL				AERUG.	
SAMPLE	DATE	SAMPLE	FIL. REAC	FIL. REAC	UNF. REAC	P04	PHOSPHOR	MF	RESIDUE
DATE	DATE	NUMBER	MG/L	MG/L	MG/L	FIL. REAC	UNF. TOT.	CNT	PARTIC.
YYMMDD	LMT		AS N	AS N	AS N	MG/L	MG/L	/100ML	MG/L
						AS P	AS P		
830117	1345	32510	0.003	1.590	0.390	8.18	0.003	0.017	6.9
830221	1340	32527	0.009	1.710	0.370	8.23	0.001	0.022	15.8
830321	1345	32546	0.004	1.090	0.340	8.30	0.001	0.019	8.3
830418	1300	32563	0.003	1.140	0.350	8.35	0.001	0.010	4.5
830516	1330	32580	0.007	1.080	0.500	8.34	0.003	0.016	11.5
830620	1350	32597	0.006	0.860	0.380	8.36	0.001	0.013	3.4
830718	1410	32614	0.006	0.700	0.330	8.30	0.010	0.012	4.5
830829	1345	32631	0.004	0.590	0.340	8.33	0.001	0.017	7.4
830919	1340	32648	0.009	0.870	0.270	8.26	0.006	0.014	4.2
831017	1350	32665	0.003	0.890	0.530	8.31	0.002	0.013	5.3
831121	1335	32682	0.005	1.360	0.440	8.27	0.002	0.020	8.5
831219	1350	32699	0.004	1.530	0.450	8.24	0.002	0.014	7.1

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

229

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: YONGE STREET, TOWN OF WALKERTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC002

STATION ID: 08-0123-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 08 04.79 LONG: 081 09 14.66

U T M: 17 0487675.0 4886625.0 4

REGION: 01

DISTANCE: 76.603

* = INTERIM		TEST-NAME:	NNO2FR	NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
			N02-N	N03-N	K'DAHL N		P04	PHOSPHOR	PSEUDOWN	
			FIL.REAC	FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	
SAMPLE			MG/L	MG/L	MG/L		MG/L	MG/L	MF	RESIDUE
DATE	HOURL	SAMPLE							CNT	PARTIC.
YYMMDD	LMT	NUMBER	AS N	AS N	AS N	PH	AS P	AS P	/100ML	MG/L
		MAXIMUM	0.009	1.710	0.530	8.36	0.010	0.022	132	15.8
		ARITH MEAN	0.005	1.117	0.391	8.29	0.003	0.016	132	7.3
		GEOM MEAN	0.005	1.063	0.384	8.29		0.015		6.6
		MINIMUM	0.003	0.590	0.270	8.18	0.001	0.010	132	3.4
		STD DEV (GEOM *)	0.002	0.362	0.076	0.05		0.004		3.5
		# SAMP IN STATISTICS	12	12	12	12	11	12	1	12
		% SAMP (EXCLUDED)					8		87	

## 1983 WATER QUALITY DATA REGION 1

230

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: HIGHWAY 4, HANOVER  
 STATION TYPE: RIVER

STATION ID: 08-0123-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 09 05.10 LONG: 081 02 21.80 U T M: 17 0496850.0 4888475.0 4 REGION: 01 DISTANCE: 94.627

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE DATE	TIME	SAMPLE NUMBER	SAMPLE DEPTH	PROJECT SUB-PROJ CODE	TOTAL MG/L						
YYMMDD	LMT		M		AS CAC03						
830221	1405	32528	0.30	0101	240.0	0.68	7.500	474.0	0.0100	11.5	12
830321	1430	32547	0.30	0101	209.0	0.67	6.000	409.0	0.0100<	12.0	4
830418	1330	32564	0.30	0101	212.0	0.62	6.500	425.0	0.0100<	11.0	20
830516	1350	32581	0.30	0101	225.0	0.78	6.000	442.0	0.0100<	10.5	8
830620	1410	32598	0.30	0101	234.0	0.19	7.500	466.0	0.0100	9.5	8
830718	1430	32615	0.30	0101	224.0	0.39	8.500	462.0	0.0100<	9.5	40
830829	1410	32632	0.30	0101	222.0	0.30	8.000	460.0	0.0100<	9.5	
830919	1400	32649	0.30	0101	226.0	0.61	9.000	469.0	0.002	10.5	
831017	1350	32666	0.30	0101	229.0	0.84	7.500	466.0	0.003	13.0	
831121	1415	32683	0.30	0101	227.0	1.14	7.000	459.0	0.002	12.5	
831219	1415	32700	0.30	0101	229.0	0.62	9.000	475.0	0.002	13.0	96
		MAXIMUM	0.30		240.0	1.14	9.000	475.0	0.0100	13.0	96
		ARITH MEAN	0.30		225.2	0.62	7.500	455.2	0.005	11.1	27
		GEOM MEAN			225.0	0.56	7.429	454.7		11.1	16
		MINIMUM	0.30		209.0	0.19	6.000	409.0	0.002	9.5	4
		STD DEV (GEOM *)			8.8	0.26	1.072	21.2		1.4	3*
		# SAMP IN STATISTICS	11		11	11	11	11	6	11	7
		% SAMP (EXCLUDED)						45		7	7

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	MNHTFR	MNO2FR	MNO3FR	MNTKUR	PBUT	PH	PP04FR	PPUT
				NH3-N			K'DAHL N				
				TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04	PHOSPHOR
				FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.
				MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
				AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE DATE	TIME	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C							
YYMMDD	LMT										
830221	1405	32528	6	2.0	0.015	0.005	1.130	0.280	8.23	0.001<	0.009
830321	1430	32547	6	1.0	0.020	0.003	0.650	0.320	8.31	0.001	0.018
830418	1330	32564	6	2.0	0.025	0.002	0.720	0.320	8.32	0.001	0.009
830516	1350	32581	6	9.0	0.010	0.003	0.690	0.370	8.32	0.001<	0.015
830620	1410	32598	6	21.0	0.020	0.005	0.800	0.340	8.37	0.001	0.012
830718	1430	32615	6	25.0	0.030	0.009	0.850	0.360	8.35	0.006	0.008
830829	1410	32632	6	24.0	0.030	0.006	0.830	0.360	8.38	0.006	0.015
830919	1400	32649	6	17.0	0.025	0.011	0.960	0.260	8.31	0.003	0.013
831017	1350	32666	6	10.0	0.010	0.006	0.570	0.480	8.28	0.007	0.021
831121	1415	32683	6	5.0	0.010	0.006	0.680	0.350	8.29	0.007	0.021
831219	1415	32700	6	1.0	0.040	0.008	0.870	0.390	8.15	0.008	0.017

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

231

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: HIGHWAY 4, HANOVER  
 STATION TYPE: RIVER

STATION ID: 08-0123-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 09 05.10 LONG: 081 02 21.80 U T M: 17 0496850.0 4888475.0 4 REGION: 01 DISTANCE: 94.627

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PP04FR P04	PPUT PHOSPHOR	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	
MAXIMUM				25.0	0.040	0.011	1.130	0.480	0.003	8.38	0.008	0.021
ARITH MEAN				18.6	0.021	0.006	0.795	0.348	0.003	8.30	0.004	0.014
GEOM MEAN				6.0	0.019	0.005	0.782	0.344		8.30		0.014
MINIMUM				1.0	0.010	0.002	0.570	0.260	0.003	8.15	0.001	0.008
STD DEV (GEOM *)				9.5	0.010	0.003	0.158	0.058		0.07		0.005
# SAMP IN STATISTICS				11	11	11	11	11	1	11	9	11
% SAMP (EXCLUDED)									90		18	

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG. MF	RSP RESIDUE PARTIC. MG/L	TCHF COLIFORM TOTAL MF	TCHF BK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	CNT /100ML	CNT /100ML	CNT /100ML		
830221	1405	32528	4<	5.8	290	360	2.00
830321	1430	32547	4<	5.7	1700	2500	2.00
830418	1330	32564	4<	1.8	690	1790	0.80
830516	1350	32581	4<	4.6	410C	5200	3.70
830620	1410	32598	4<	3.2	160C	24000>	2.40
830718	1430	32615	4<	4.0	310C	9000	2.50
830829	1410	32632		3.3			2.10
830919	1400	32649		0.8			1.40
831017	1350	32666		9.8			4.40
831121	1415	32683		6.9			3.50
831219	1415	32700	4<	3.4	570	550	1.24
MAXIMUM				9.8	1700	9000	4.40
ARITH MEAN				4.5	590	3233	2.37
GEOM MEAN				3.8	453		2.12
MINIMUM				0.8	160	360	0.80
STD DEV (GEOM *)				2.5	2*		1.11
# SAMP IN STATISTICS				11	7	6	11
% SAMP (EXCLUDED)						14	3
							72



## 1983 WATER QUALITY DATA REGION 1

232

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: DOWNSTREAM FROM DAM, WEST OF TEESWATER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FC104

STATION ID: 08-0123-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 43 59 57.50 LONG: 081 18 22.31 U T M: 17 0475450.0 4871625.0 4 REGION: 01 DISTANCE: 99.938

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	DO	FCMF	FSMF	FWSTRC
					BOD				FECAL	FECAL	
					5 DAY	CHLORIDE	CONDUCT.	DISOLVED	COLIFORM	STREPCUS	
SAMPLE	HOUR	SAMPLE	SAMPLE	PROJECT	ALK	UNF.REAC	25C	OXYGEN	MF	MF	
DATE	TIME	NUMBER	DEPTH	SUB-PROJ	TOTAL	MG/L	UMHO/CM	MG/L	CNT	CNT	STREAM
YYMMDD	LMT		M	CODE	MG/L	AS O	AT 25 C	AS O	/100ML	/100ML	COND.
					AS CAC03						
830117	0920	32501	0.30	0101	267.0	1.78	10.000	565.0	12.0	164	6
830221	0915	32518	0.30	0101	253.0	0.95	9.000	530.0	10.5	4	6
830321	0940	32537	0.30	0101	252.0	0.65	9.000	525.0	11.0	44	6
830418	0905	32554	0.30	0101	249.0	0.75	10.500	535.0	11.0	4	6
830516	0915	32571	0.30	0101	236.0	1.13	7.500	486.0	10.5	172	6
830620	0950	32588	0.30	0101	250.0	0.92	9.500	520.0	12.0	60	6
830718	1010	32605	0.30	0101	243.0	0.73	9.500	510.0	10.5	452	6
830829	0940	32622	0.30	0101	254.0	0.59	9.000	520.0	9.5	52	6
830919	0935	32639	0.30	0101	245.0	1.45	9.500	535.0	10.0		6
831017	0920	32656	0.30	0101	276.0	0.69	10.000	590.0	12.0		6
831121	0930	32673	0.30	0101	262.0	1.11	9.500	570.0	12.0		6
831219	0950	32690	0.30	0101	264.0	0.90	11.000	570.0	10.0	70AID	6
		MAXIMUM	0.30		276.0	1.78	11.000	590.0	12.0	452	1220
		ARITH MEAN	0.30		254.2	0.97	9.500	538.0	10.9	130	544
		GEOM MEAN			254.0	0.92	9.461	537.2	10.9	48	
		MINIMUM	0.30		236.0	0.59	7.500	486.0	9.5	4	52
		STD DEV (GEOM *)			11.2	0.35	0.879	30.0	0.9	6*	
		# SAMP IN STATISTICS	12		12	12	12	12	12	7	5
		% SAMP (EXCLUDED)									28

*INTERIM TEST-NAME:		FWTEMP	NNHTFR	NNO2FR	NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	
			NH3-N			K'DAHL N				PSEUDOMN		
			TOTAL	NO2-N	NO3-N	TOTAL		PO4	PHOSPHOR	AERUG.		
SAMPLE	HOUR	SAMPLE	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE	
DATE	TIME	NUMBER	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	CNT	PARTIC.	
YYMMDD	LMT		AS N	AS N	AS N	AS N	PH	AS P	AS P	/100ML	MG/L	
830117	0920	32501	1.0	0.040	0.013	4.640	1.180	7.95	0.030	0.079	4<	4.2
830221	0915	32518	2.0	0.020	0.041	4.260	0.540	8.12	0.014	0.042	4<	5.6
830321	0940	32537	1.0	0.020	0.013	3.500	0.600	8.21	0.040	0.069	4	6.6
830418	0905	32554	3.0	0.025	0.012	4.100	0.550	8.26	0.010	0.021	4<	3.5
830516	0915	32571	7.0	0.050	0.038	3.010	0.740	8.29	0.019	0.042	4<	3.9
830620	0950	32588	20.5	0.305	0.063	2.300	0.870	8.44	0.076	0.096		2.3
830718	1010	32605	22.0	0.050	0.066	1.900	0.550	8.27	0.104	0.111	20	5.2
830829	0940	32622	21.0	0.055	0.046	1.880	0.580	8.22	0.088	0.116		4.7
830919	0935	32639	15.0	0.090	0.077	2.600	0.690	7.97	0.118	0.148		8.0
831017	0920	32656	10.0	0.020	0.011	2.900	0.650	8.11	0.017	0.032		3.6
831121	0930	32673	6.0	0.015	0.013	3.700	0.530	8.15	0.017	0.045		5.5
831219	0950	32690	1.0	0.030	0.010	4.890	0.570	7.98	0.037	0.057	4<	4.1

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

233

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: DOWNSTREAM FROM DAM, WEST OF TEESWATER  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FC104

STATION ID: 08-0123-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 43 59 57.50 LONG: 081 18 22.31

U T M: 17 0475450.0 4871625.0 4

REGION: 01

DISTANCE: 99.938

*INTERIM TEST-NAME:		FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PH	PP04FR PO4 FIL.REAC MG/L	PPUT PHOSPHOR UNF.TOT. MG/L	PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER NUMBER DEG.C	WATER TEMP AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	AS P	AS P	
MAXIMUM		22.0	0.305	0.077	4.890	1.180	8.44	0.118	0.148	20	8.0
ARITH MEAN		9.1	0.060	0.034	3.307	0.671	8.16	0.047	0.071	12	4.8
GEOM MEAN		5.2	0.039	0.025	3.151	0.652	8.16	0.034	0.062		4.5
MINIMUM		1.0	0.015	0.010	1.880	0.530	7.95	0.010	0.021	4	2.3
STD DEV (GEOM *)		8.4	0.080	0.025	1.036	0.189	0.15	0.038	0.039		1.5
# SAMP IN STATISTICS		12	12	12	12	12	12	12	12	2	12
% SAMP (EXCLUDED)										71	

\*INTERIM TEST-NAME: TURB

SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER NUMBER	TURB'ITY FTU
830117	0920	32501	3.00
830221	0915	32518	2.70
830321	0940	32537	2.20
830418	0905	32554	1.88
830516	0915	32571	4.10
830620	0950	32588	2.10
830718	1010	32605	3.40
830829	0940	32622	2.30
830919	0935	32639	2.80
831017	0920	32656	1.60
831121	0930	32673	2.30
831219	0950	32690	2.60
MAXIMUM		4.10	
ARITH MEAN		2.58	
GEOM MEAN		2.50	
MINIMUM		1.60	
STD DEV (GEOM *)		0.69	
# SAMP IN STATISTICS		12	
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 1

234

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: HIGHWAY 4, TOWN OF DURHAM  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC014

STATION ID: 08-0123-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.62 LONG: 080 50 16.77 U T M: 17 0512950.0 4891650.0 4 REGION: 01 DISTANCE: 125.847

*-INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCHF	FSMF
					BOD					FECAL	FECAL
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	HF	HF
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
				AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE DATE	YMMDD LMT	YMMDD LMT	SAMPLE DEPTH	PROJECT SUB-PROJ							
830118	0800	32513	0.30	0101	231.0	1.52	7.000	451.0	0.0100<	12.0	52
830222	0800	32530	0.30	0101	226.0	1.01	8.000	438.0	0.0100	11.5	44
830322	0825	32549	0.30	0101	200.0	0.73	8.500	394.0	0.0100	12.0	28
830419	0800	32566	0.30	0101	191.0	0.59	5.000	376.0	0.0100<	11.5	36
830517	0800	32583	0.30	0101	207.0	0.39	5.500	396.0	0.0100	10.0	8
830621	0810	32600	0.30	0101	221.0	0.34	8.500	440.0	0.0100	9.0	8
830719	0810	32617	0.30	0101	216.0	0.62	11.000	446.0	0.0100	9.0	48
830829	0930	32634	0.30	0101	215.0	0.41	10.000	440.0	0.0100<	9.0	
830920	0800	32651	0.30	0101	213.0	0.55	9.500	433.0		10.0	
831018	0825	32668	0.30	0101	221.0	0.91	7.500	445.0	0.001	12.5	
831122	0830	32685	0.30	0101	186.0	1.08	6.000	376.0		12.5	
831220	0845	32702	0.30	0101	219.0	0.80	7.500	440.0	0.003	12.5	24
		MAXIMUM	0.30		231.0	1.52	11.000	451.0	0.0100	12.5	52
		ARITH MEAN	0.30		212.2	0.75	7.833	422.9	0.008	11.0	31
		GEOM MEAN			211.7	0.68	7.635	422.0		10.9	25
		MINIMUM	0.30		186.0	0.34	5.000	376.0	0.001	9.0	8
		STD DEV (GEOM #)			13.7	0.34	1.813	28.6		1.5	2*
		# SAMP IN STATISTICS	12		12	12	12	12	7	12	8
		% SAMP (EXCLUDED)						30			12

*-INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
				NH3-N			K'DAHL N				
				TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PO4	PHOSPHOR
				FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.
				MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
				AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE DATE	YMMDD LMT	YMMDD LMT	SAMPLE DEPTH	STREAM COND.	WATER TEMP						
830118	0800	32513	6	1.0	0.010	0.001	0.650	0.300	0.030<	8.16	0.003
830222	0800	32530	6	1.0	0.005<	0.001	0.640	0.250	0.030<	8.26	0.001<
830322	0825	32549	6	0.5	0.010	0.001	0.310	0.400	0.030<	8.22	0.001
830419	0800	32566	6	3.0	0.005<	0.001	0.310	0.300	0.030<	8.29	0.001
830517	0800	32583	6	9.0	0.015	0.002	0.270	0.410	0.030<	8.39	0.001
830621	0810	32600	6	23.0	0.020	0.004	0.460	0.410	0.030<	8.37	0.001
830719	0810	32617	6	23.0	0.045	0.006	0.690	0.490	0.030<	8.27	0.010
830829	0930	32634	6	22.5	0.035	0.005	0.620	0.460	0.030<	8.30	0.002
830920	0800	32651	6	16.0	0.020	0.002	0.510	0.270		8.29	0.001
831018	0825	32668	6	9.0	0.010	0.002	0.270	0.540	0.003<	8.34	0.002
831122	0830	32685	6	4.0	0.005	0.003	0.370	0.510		8.29	0.002
831220	0845	32702	6	1.0	0.005	0.003	0.480	0.600	0.003<	8.12	0.001

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

235

B.O.W./ SITE: SAUGEE RIVER  
 SAMPLE POINT: HIGHWAY 4, TOWN OF DURHAM  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC014

STATION ID: 08-0123-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEE RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.62 LONG: 080 50 16.77 U T M: 17 0512950.0 4891650.0 4 REGION: 01 DISTANCE: 125.847

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PP04FR P04	PPUT PHOSPHOR	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
MAXIMUM				23.0	0.045	0.006	0.690	0.600		8.39	0.010	0.034
ARITH MEAN				9.4	0.017	0.003	0.465	0.412		8.27	0.002	0.015
GEOM MEAN				4.6		0.002	0.440	0.397		8.27		0.014
MINIMUM				0.5	0.005	0.001	0.270	0.250		8.12	0.001	0.007
STD DEV (GEOM #)				9.3		0.002	0.158	0.113		0.08		0.008
# SAMP IN STATISTICS				12	10	12	12	12		12	11	12
% SAMP (EXCLUDED)					16						8	

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG. MF	RSP RESIDUE PARTIC. MG/L	TCMF COLIFORM TOTAL MF	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	CNT /100ML	CNT /100ML	CNT /100ML		
830118	0800	32513	4<	1.4	30AID	260	1.68
830222	0800	32530	4<	4.4	200	370	2.00
830322	0825	32549	4<	4.0	220	330	3.20
830419	0800	32566	4<	2.5	120	260	1.58
830517	0800	32583	4<	4.1	120	516	2.90
830621	0810	32600	4<	2.8	80	1080	2.30
830719	0810	32617	36	4.5	190C	24000>	3.60
830829	0930	32634		4.2			3.40
830920	0800	32651		0.8			1.70
831018	0825	32668		9.0			3.80
831122	0830	32685		19.8			13.20
831220	0845	32702	4	6.3	270	470	2.40
MAXIMUM		36	19.8	270	1080	13.20	0.1000
ARITH MEAN		20	5.3	154	469	3.48	0.027
GEOM MEAN			3.9	129		2.85	
MINIMUM		4	0.8	30	260	1.58	0.002
STD DEV (GEOM #)			5.0	2*		3.16	
# SAMP IN STATISTICS		2	12	8	7	12	6
% SAMP (EXCLUDED)		75			12		40

## 1983 WATER QUALITY DATA REGION 1

236

B.O.W./ SITE: ROCKY SAUGEEN RIVER  
 SAMPLE POINT: AT CONCESSION ROAD SOUTHWEST OF MARKDALE  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC005

STATION ID: 08-0123-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 18 14.36 LONG: 080 39 54.97 U T M: 17 0526700.0 4905475.0 4 REGION: 01 DISTANCE: 143.389

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	ASUT	BOD5	CCNAUR	CCNFUR	CDUT	CLIDUR	COND25
SAMPLE	DATE HOUR	SAMPLE	SAMPLE	PROJECT	ALK	ARSENIC	BOD	CYANIDE	CADMIUM	CHLORIDE	CONDUCT.
DATE HOUR	YMMDD LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL	UNF.TOT.	5 DAY	AVAIL	UNF.REAC	UNF.TOT.	25C
			M	CODE	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO/CM
				AS CAC03	AS AS	AS AS	AS O	AS HCN	AS HCN	AS CL-	AT 25 C
	830118 0850	32514	0.30	0101	270.0	0.001<	1.41		0.001<W	0.0020<	7.000
	830202 0845	32531	0.30	0101	265.0	0.001<	0.64		0.001<W	0.0020<	8.000
	830307 0950	32534	0.30	0101	236.0	0.001<	1.08		0.001<W	0.0020<	7.000
	830322 0905	32550	0.30	0101	249.0	0.001	0.66		0.001<W	0.0200	7.500<
	830419 0845	32567	0.30	0101	251.0	0.001<	0.26		0.001<W	0.0020<	6.000
	830517 0845	32584	0.30	0101	261.0		0.46		0.001<W	0.0020<	5.500
	830621 0840	32601	0.30	0101	264.0	0.001	0.34		0.001<W	0.0020<	6.000
	830719 0845	32618	0.30	0101	257.0	0.001<	0.56		0.002	0.0020<	6.000
	830830 0845	32635	0.30	0101	252.0		0.54		0.001<T	0.0020<	6.000
	830920 0835	32652	0.30	0101	260.0	0.001<	0.61			0.0002<	7.500
	831018 0900	32669	0.30	0101	247.0	0.001<	0.75	0.001<W		0.0002<	8.000
	831122 0915	32686	0.30	0101	180.0	0.001<	0.35			0.0002<	7.000
	831220 0930	32703	0.30	0101	264.0	0.001<	0.40	0.003<T		0.0002<	8.500
		MAXIMUM	0.30		270.0	0.001	1.41	0.003	0.002	0.0200	8.500
		ARITH MEAN	0.30		250.5	0.001	0.62	0.002<A	0.001<A	0.0200	6.875
		GEOM MEAN			249.3		0.56	0.002<A	0.001<A		484.6
		MINIMUM	0.30		180.0	0.001	0.26	0.001	0.001	0.0200	5.500
		STD DEV (GEOM *)			23.1		0.32	0.001<A	0.000<A		26.4
		# SAMP IN STATISTICS	13		13		13	2	9	1	12
		% SAMP (EXCLUDED)				81			92		7

*=INTERIM	TEST-NAME:	CRUT	CUUT	DO	FCMF	FEUT	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR
SAMPLE	DATE HOUR	CHROMIUM	COPPER	DIVOLVED	COLIFORM	IRON	STREPCUS		WATER	NH3-N	NH02-N
DATE HOUR	YMMDD LMT	UNF.TOT.	UNF.TOT.	OXYGEN	MF	UNF.TOT.	MF		TEMP	FIL.REAC	FIL.REAC
		MG/L	MG/L	MG/L	CNT	MG/L	CNT	STREAM	DEG.C	MG/L	MG/L
		AS CR	AS CU	AS O	/100ML	AS FE	/100ML	COND.		AS N	AS N
	830118 0850	32514	0.0200<	0.0100<	12.0	4	0.0100<	4	6	1.0	0.010
	830202 0845	32531	0.0200<	0.0100	11.5	8	0.0300	4	6	2.0	0.005
	830307 0950	32534	0.0200<	0.0100<	10.5	600>	0.0100<	108	6	5.0	0.115
	830322 0905	32550	0.0200<	0.0100	11.5	248	0.0100	88	6	1.0	0.090
	830419 0845	32567	0.0200<	0.0100<	11.0	10	0.0100<	4	6	4.0	0.005
	830517 0845	32584	0.0200<	0.0100	10.5	4	0.0200	4	6	8.0	0.010
	830621 0840	32601	0.0200<	0.0100	10.0	20	0.0400	12	6	16.0	0.010
	830719 0845	32618	0.0200<	0.0100<	9.5	16	0.3100	20	6	20.0	0.025
	830830 0845	32635	0.2200<	0.0100<	9.0		0.0700		6	19.0	0.035
	830920 0835	32652	0.002	0.001 <	10.5		0.027		6	15.0	0.020
	831018 0900	32669	0.002	0.005	12.5		0.034		6	9.0	0.040

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

237

B.O.W./ SITE: ROCKY SAUGEEN RIVER  
 SAMPLE POINT: AT CONCESSION ROAD SOUTHWEST OF MARKDALE  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC005

STATION ID: 08-0123-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 18 14.36 LONG: 080 39 54.97 U T M: 17 0526700.0 4905475.0 4 REGION: 01 DISTANCE: 143.389

*INTERIM TEST-NAME:		CRUT	CUUT	DO	FCMF FECAL COLIFORM MF /100ML	FEUT IRON MG/L AS FE	FSMF FECAL STREPCUS MF /100ML	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NN02FR NO2-N FIL.REAC MG/L AS N
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	CHROMIUM UNF.TOT. MG/L AS CR	COPPER UNF.TOT. MG/L AS CU	DISSOLVED OXYGEN MG/L AS O						
831122	0915	32686	0.001	0.005	12.0	0.034		6	4.0	0.030	0.004
831220	0930	32703	0.003	0.008	12.0	8	0.035	4<	6	1.0	0.003
MAXIMUM		0.003	0.0100	12.5	248	0.3100	108		20.0	0.115	0.008
ARITH MEAN		0.002	0.008	11.0	40	0.061	30		8.1	0.032	0.004
GEOM MEAN				10.9					4.9	0.020	0.003
MINIMUM		0.001	0.005	9.0	4	0.0100	4		1.0	0.005	0.001
STD DEV (GEOM %)				1.1					7.1	0.034	0.002
# SAMP IN STATISTICS		4	7	13	8	10	8		13	13	13
% SAMP (EXCLUDED)		69	46		11	23	11				

*INTERIM TEST-NAME:		NN03FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF /100ML	PIPCBT PCB TOTAL NG/L	RSP RESIDUE PARTIC. MG/L	
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER										
830118	0850	32514	2.000	0.220	0.030<	8.13	1.000	0.001	0.009	4<	20<W	0.6
830202	0845	32531	1.870	0.230	0.030<	8.18	1.000<	0.001<	0.005	4<	20<W	3.7
830307	0950	32534	1.410	0.550	0.030<	8.12	1.000<	0.025	0.046	4	20<W	4.4
830322	0905	32550	1.660	0.470	0.030<	8.12	1.000<	0.010	0.042	4	20<W	2.9
830419	0845	32567	1.640	0.270	0.030<	8.29	1.000<	0.001	0.005	4<	20<W	0.2
830517	0845	32584	1.470	0.300	0.030	8.20	1.000<	0.001<	0.008	4<	20<W	1.7
830621	0840	32601	1.500	0.280	0.030<	8.29	1.000<	0.001	0.007	4<	20<W	3.4
830719	0845	32618	1.520	0.280	0.030<	8.26	1.000<	0.007	0.014	4<	20<W	1.9
830830	0845	32635	1.280	0.350	0.030<	8.30	1.000<	0.001<	0.013		20<W	4.1
830920	0835	32652	1.410	0.220	0.003<	8.30	1.000<	0.001	0.005		20<W	0.1
831018	0900	32669	1.170	0.390	0.003<	8.21	1.000<	0.003	0.008			1.3
831122	0915	32686	1.140	0.280	0.003<	8.21	1.000	0.003	0.011			0.8
831220	0930	32703	1.760	0.400	0.015	8.03	1.500	0.001	0.008	4<	20<W	2.0
MAXIMUM		2.000	0.550	0.030	8.30	1.500	0.025	0.046	4	20	4.4	
ARITH MEAN		1.525	0.326	0.022	8.20	1.167	0.005	0.014	4	20<A	2.1	
GEOM MEAN		1.505	0.313		8.20			0.010		20<A	1.4	
MINIMUM		1.140	0.220	0.015	8.03	1.000	0.001	0.005	4	20	0.1	
STD DEV (GEOM %)		0.258	0.101		0.09			0.014		0<A	1.5	
# SAMP IN STATISTICS		13	13	2	13	3	10	13	2	11	13	
% SAMP (EXCLUDED)				84		76	23		77			

( CONTD )

## 1983 WATER QUALITY DATA REGION 1

238

B.O.W./ SITE: ROCKY SAUGEEN RIVER  
 SAMPLE POINT: AT CONCESSION ROAD SOUTHWEST OF MARKDALE  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC005

STATION ID: 08-0123-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 18 14.36 LONG: 080 39 54.97 U T M: 17 0526700.0 4905475.0 4 REGION: 01 DISTANCE: 143.389

*INTERIM TEST-NAME:		TCHF	TCHFBK	TURB	X3245	ZNUT	
		COLIFORM	COLIFORM				
		TOTAL	TOTAL MF		2,4,5	ZINC	
SAMPLE		MF	BCKGRD		TRCHLORO	UNF.TOT.	
DATE	HOUR	CNT	CNT	TURB'ITY	PHENOL	MG/L	
YYMMDD	LMT	/100ML	/100ML	FTU	NG/L	AS ZN	
830118	0850	32514	20AID	20	1.07	50<W	0.0400
830202	0845	32531	60AID	360	2.00	50<W	0.0100<
830307	0950	32534	11100	19600	1.87	50<W	0.0100<
830322	0905	32550	1800	1900	1.86	50<W	0.0100
830419	0845	32567	40AID	590	1.12	50<W	0.0100<
830517	0845	32584	16	8	1.29	50<W	0.0100<
830621	0840	32601	196	840	1.73	50<W	0.0100<
830719	0845	32618	50C	15000	2.30	50<W	0.0100<
830830	0845	32635			3.10	50<W	0.0100<
830920	0835	32652			0.63	50<W	0.005
831018	0900	32669			0.78		0.003
831122	0915	32686			1.70	50<W	0.004
831220	0930	32703	70AID	430	1.05	50<W	0.006
MAXIMUM		11100	19600	3.10	50		0.0400
ARITH MEAN		1484	4305	1.58	50<A		0.011
GEOM MEAN		130	575	1.44	50<A		
MINIMUM		16	8	0.63	50		0.003
STD DEV (GEOM %)		9%	14%	0.68	0<A		
# SAMP IN STATISTICS		9	9	13	12		6
% SAMP (EXCLUDED)							53

## 1983 WATER QUALITY DATA REGION 1

239

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT TOWNSHIP ROAD, DOWNSTREAM OF PAISLEY  
 STATION TYPE: RIVER

STATION ID: 08-0123-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 19 06.74 LONG: 081 16 48.95 U T M: 17 0477650.0 4907075.0 4 REGION: 01 DISTANCE: 35.083

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	MF	MF
					MG/L	MG/L	UMHQ/CH	MG/L	MG/L	CNT	CNT
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	TIME	DEPTH	PROJECT	TOTAL						
YYMMDD	LMT	NUMBER	M	SUB-PROJ	MG/L						
				CODE	AS CAC03						
830117	1110	32505	0.30	0101	242.0	1.06	9.000	540.0	0.0100<	12.5	28
830221	1125	32522	0.30	0101	225.0	1.20	8.500	495.0	0.0100	11.0	120
830321	1125	32541	0.30	0101	231.0	0.45	8.000	500.0	0.0100<	11.0	4
830418	1055	32558	0.30	0101	216.0	0.44	7.000	467.0	0.0100<	12.0	4<
830516	1110	32575	0.30	0101	229.0	0.86	7.500	520.0	0.0100<	10.5	4<
830620	1140	32592	0.30	0101	224.0	0.47	8.500	540.0	0.0100	10.0	4
830718	1158	32609	0.30	0101	196.0	0.42	9.500	560.0	0.0100<	10.5	4<
830829	1130	32626	0.30	0101	204.0	0.26	9.000	550.0	0.0100<	10.0	
830919	1120	32643	0.30	0101	214.0	0.58	10.500	615.0	0.005	10.0	
831017	1110	32660	0.30	0101	237.0	0.91	10.000	550.0	0.004	12.0	
831121	1100	32677	0.30	0101	240.0	0.82	9.500	565.0	0.012	12.0	
831219	1130	32694	0.30	0101	232.0	0.80	11.000	540.0	0.003	12.5	40
MAXIMUM			0.30		242.0	1.20	11.000	615.0	0.012	12.5	120
ARITH MEAN			0.30		224.2	0.69	9.000	536.8	0.007	11.2	39
GEOM MEAN					223.7	0.63	8.927	535.6		11.1	27
MINIMUM			0.30		196.0	0.26	7.000	467.0	0.003	10.0	4
STD DEV (GEOM #)					14.3	0.29	1.187	38.2		1.0	3*
# SAMP IN STATISTICS			12		12	12	12	6	12	8	5
% SAMP (EXCLUDED)								50			37

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
				NH3-N			K'DAHL N				
				TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PO4	PHOSPHOR
				FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		FIL. REAC	UNF. TOT.
				MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
				AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE	DATE	TIME	STREAM	WATER							
YYMMDD	LMT	NUMBER	COND.	TEMP							
				DEG. C							
830117	1110	32505	6	1.0	0.020	0.003	1.710	0.360	0.030<	8.13	0.006
830221	1125	32522	6	1.0	0.020	0.036	1.700	0.440	0.030<	8.20	0.016
830321	1125	32541	6	1.0	0.015	0.005	1.270	0.400	0.030<	8.26	0.001
830418	1055	32558	6	4.0	0.015	0.005	1.240	0.450	0.030<	8.30	0.002
830516	1110	32575	6	10.0	0.025	0.008	1.030	0.450	0.030<	8.35	0.002
830620	1140	32592	6	22.0	0.050	0.010	0.680	0.410	0.030<	8.28	0.007
830718	1158	32609	6	25.0	0.035	0.007	0.530	0.360	0.030<	8.19	0.012
830829	1130	32626	6	25.0	0.015	0.004	0.430	0.440	0.030<	8.32	0.001<
830919	1120	32643	6	17.0	0.030	0.004	0.740	0.310	0.005	8.25	0.002
831017	1110	32660	6	10.0	0.015	0.004	0.960	0.610	0.003<	8.31	0.002
831121	1100	32677	6	5.0	0.005<	0.006	1.370	0.390	0.004	8.26	0.002
831219	1130	32694	6	1.0	0.015	0.005	1.730	0.500	0.003<	8.07	0.002

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

240

B.O.W./ SITE: SAUGEE RIVER  
 SAMPLE POINT: AT TOWNSHIP ROAD, DOWNSTREAM OF PAISLEY  
 STATION TYPE: RIVER

STATION ID: 08-0123-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEE RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 19 06.74 LONG: 081 16 48.95 U T M: 17 0477650.0 4907075.0 4 REGION: 01 DISTANCE: 35.083

*INTERIM		TEST-NAME:	FNSTRC	FNTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PP04FR PO4	PPUT PHOSPHOR	
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB		FIL.PEAC MG/L AS P	UNF.TOT. MG/L AS P	
				MAXIMUM	25.0	0.050	0.036	1.730	0.610	0.005	8.35	0.016	0.050
				ARITH MEAN	10.2	0.023	0.008	1.116	0.427	0.004	8.24	0.005	0.026
				GEOM MEAN	5.3		0.006	1.017	0.421		8.24		0.024
				MINIMUM	1.0	0.015	0.003	0.430	0.310	0.004	8.07	0.001	0.016
				STD DEV (GEOM *)	9.7		0.009	0.462	0.077		0.08		0.012
				# SAMP IN STATISTICS	12	11	12	12	12	2	12	11	12
				% SAMP (EXCLUDED)		8			83		8		

*INTERIM		TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	MF CNT /100ML	MG/L	MF CNT /100ML	CNT /100ML			
830117	1110	32505	4<	2.9	280	600	4.10	0.0800	
830221	1125	32522	4<	31.8	200	350	25.00	0.0100<	
830321	1125	32541	4<	19.9	240	350	9.10	0.0100<	
830418	1055	32558	4<	8.9	530C	3200	4.90	0.0100<	
830516	1110	32575	4<	10.3	240	2400	9.50	0.0100<	
830620	1140	32592	4<	15.9	40C	9600>	15.40	0.0100<	
830718	1158	32609	4<	11.7	50AID	2710	11.40	0.0100<	
830829	1130	32626		11.8			11.60	0.0100<	
830919	1120	32643		9.7			12.30	0.001	
831017	1110	32660		11.1			7.50	0.001 <	
831121	1100	32677		6.6			4.90	5.700	
831219	1130	32694	4<	6.5	250	750	4.50	0.002	
				MAXIMUM	31.8	530	3200	25.00	5.700
				ARITH MEAN	12.3	229	1480	10.02	1.446
				GEOM MEAN	10.5	174		8.67	
				MINIMUM	2.9	40	350	4.10	0.001
				STD DEV (GEOM *)	7.6	2*		5.94	
				# SAMP IN STATISTICS	12	8	7	12	4
				% SAMP (EXCLUDED)			12	66	

## 1983 WATER QUALITY DATA REGION 1

241

B.O.W./ SITE: NORTH SAUGEEN RIVER  
 SAMPLE POINT: AT ELDERSLIE TOWNSHIP ROAD 25 AND 26  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC013

STATION ID: 08-0123-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 17 44.29 LONG: 081 07 15.46 U T M: 17 0490350.0 4904500.0 4 REGION: 01 DISTANCE: 55.360

*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
				AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE DATE	HOUR	SAMPLE	SAMPLE	PROJECT							
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ							
			M	CODE							
830117	1145	32506	0.30	0101	232.0	0.86	5.000	444.0	0.0100<	12.0	4<
830221	1145	32523	0.30	0101	237.0	0.68	5.000	440.0	0.0100	11.5	8
830321	1145	32542	0.30	0101	227.0	0.61	4.500	422.0	0.0100<	11.0	8
830418	1115	32559	0.30	0101	225.0	0.47	7.000	435.0	0.0100	11.0	4<
830516	1145	32576	0.30	0101	225.0	0.90	4.000	423.0	0.0100<	10.5	8
830620	1030	32593	0.30	0101	222.0	0.59	3.500	412.0	0.0100<	10.0	132
830718	1255	32610	0.30	0101	212.0	0.57	4.000	397.0	0.0100	10.5	88
830829	1155	32627	0.30	0101	215.0	0.61	4.000	400.0	0.0100<	9.5	92
830919	1145	32644	0.30	0101	221.0	0.84	5.500	418.0	0.002	11.0	
831017	1140	32661	0.30	0101	226.0	0.87	5.000	440.0	0.001	13.0	
831121	1125	32678	0.30	0101	234.0	1.21	4.500	452.0	0.001 <	12.0	
831219	1200	32695	0.30	0101	228.0	0.70	6.500	451.0	0.002	10.0	8
		MAXIMUM	0.30		237.0	1.21	7.000	452.0	0.0100	13.0	132
		ARITH MEAN	0.30		225.3	0.74	4.875	427.8	0.006	11.0	37
		GEOM MEAN			225.2	0.72	4.779	427.5		11.0	57
		MINIMUM	0.30		212.0	0.47	3.500	397.0	0.001	9.5	4
		STD DEV (GEOM *)			7.3	0.20	1.047	18.7		1.0	8
		# SAMP IN STATISTICS	12		12	12	12	6	12	7	6
		% SAMP (EXCLUDED)						50		12	25

*=INTERIM TEST-NAME:		FMFLOW	FMSTRC	FWTEMP	MNHTFR	NN02FR	NN03FR	MNTKUR	PBUT	PH	PP04FR
					NH3-N			K'DAHL N			
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P
SAMPLE DATE	HOUR	SAMPLE	STREAM								
YYMMDD	LMT	NUMBER	FLOW	COND.	TEMP						
			M3		DEG.C						
			/S								
830117	1145	32506	4.800	6	1.0	0.025	0.002	0.910	0.260	0.030<	8.15
830221	1145	32523	6.560	6	2.0	0.020	0.009	1.010	0.260	0.030<	8.21
830321	1145	32542	5.070	6	1.0	0.020	0.003	0.810	0.230	0.030<	8.30
830418	1115	32559	5.710	6	4.8	0.010	0.002	0.760	0.240	0.030<	8.36
830516	1145	32576	4.820	6	10.0	0.015	0.003	0.550	0.300	0.030<	8.45
830620	1030	32593	2.720	6	22.0	0.045	0.008	0.320	0.390	0.030<	8.43
830718	1255	32610	2.010	6	25.0	0.030	0.007	0.260	0.370	0.030<	8.39
830829	1155	32627	1.950	6	26.0	0.015	0.003	0.200	0.350	0.030<	8.45
830919	1145	32644	2.130	6	16.0	0.016	0.002	0.330	0.300	0.003<	8.40
831017	1140	32661	3.070	6	11.0	0.015	0.003	0.440	0.330	0.003<	8.37
831121	1125	32678	3.870	6	6.0	0.005	0.005	0.680	0.430	0.003<	8.29
831219	1200	32695	3.300	4	1.0	0.015	0.002	0.870	0.340	0.004	8.17

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

242

B.O.W./ SITE: NORTH SAUGEEN RIVER  
 SAMPLE POINT: AT ELDERSLIE TOWNSHIP ROAD 25 AND 26  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC013

STATION ID: 08-0123-009-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 17 44.29 LONG: 081 07 15.46

U T M: 17 0490350.0 4904500.0 4

REGION: 01

DISTANCE: 55.360

*INTERIM TEST-NAME:		FNFLOW	FNSTRC	FNTMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	MG/L AS P

		MAXIMUM	6.560		26.0	0.045	0.009	1.010	0.430	0.004	0.013
		ARITH MEAN	3.834		10.4	0.019	0.004	0.595	0.317	0.004	0.004
		GEOM MEAN	3.543		5.7	0.017	0.003	0.526	0.311		0.002
		MINIMUM	1.950		1.0	0.005	0.002	0.200	0.230	0.004	0.001
		STD DEV (GEOM *)	1.546		9.6	0.010	0.003	0.281	0.063		0.004
		# SAMP IN STATISTICS	12		12	12	12	12	12	1	12
		% SAMP (EXCLUDED)								91	12

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT.
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	MF CNT /100ML	MF CNT /100ML		MG/L AS ZN
830117	1145	32506	0.009	4<	1.6	50AID	260	0.0100
830221	1145	32523	0.019	4<	15.3	340	520	0.0100<
830321	1145	32542	0.030	4<	16.2	50AID	310	0.0100<
830418	1115	32559	0.012	4<	9.0	50C	24000	0.0100<
830516	1145	32576	0.018	4<	5.8	108C	2640	0.0100<
830620	1030	32593	0.026	4<	12.7	256C	9600>	0.0100<
830718	1255	32610	0.027	4<	12.0	100C	240000	0.0100<
830829	1155	32627	0.025		16.5			0.0100<
830919	1145	32644	0.112		14.0			0.001 <
831017	1140	32661	0.010		4.3			0.001 <
831121	1125	32678	0.024		15.6			0.002
831219	1200	32695	0.020	4<	12.9	180	830	0.005
		MAXIMUM	0.112		16.5	340	240000	0.0100
		ARITH MEAN	0.028		11.3	142	38366	0.006
		GEOM MEAN	0.022		9.6	110		
		MINIMUM	0.009		1.6	50	260	0.002
		STD DEV (GEOM *)	0.027		5.0	2*		
		# SAMP IN STATISTICS	12		12	8	7	3
		% SAMP (EXCLUDED)					12	75

## 1983 WATER QUALITY DATA REGION 1

243

B.O.W./ SITE: OTTER CREEK  
 SAMPLE POINT: AT BRUCE COUNTY ROAD 16 NORTH OF MILDWAY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FC108

STATION ID: 08-0123-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 00 55.44				LONG: 081 07 38.11				U T M: 17 0489800.0 4873375.0 4				REGION: 01		DISTANCE: 87.868	
*INTERIM		TEST-NAME:	FMSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF			
					ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL			
SAMPLE	DATE	DATE	SAMPLE	PROJECT	TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS			
YYMMDD	HOUR	YYMMDD	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MF			
	LMT		M	CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	CNT	CNT			
											/100ML	/100ML			
830117	0850		32500	0101	278.0	1.45	11.000	600.0	0.0100<	12.0	48	60			
830221	0840		32517	0101	270.0	1.00	10.000	565.0	0.0100	11.0	72	520			
830321	0855		32536	0101	259.0	0.72	10.000	540.0	0.0100<	11.0	20	10AID			
830418	0830		32553	0101	261.0	0.79	10.000	550.0	0.0100	10.5	36	8			
830516	0840		32570	0101	257.0	0.75	9.000	540.0	0.0100<	10.0	140	16			
830620	0915		32587	0101	268.0	0.50	9.500	550.0	0.2600	9.5	24	8			
830718	0935		32604	0101	273.0	0.56	10.000	580.0	0.0100	10.2	156	248			
830829	0920		32621	0101	270.0	0.50	10.000	570.0	0.0100	9.5					
830919	0900		32638	0101	267.0	0.67	11.000	585.0	0.004	9.5					
831017	0835		32655	0101	273.0	0.93	11.000	590.0	0.003	11.5					
831121	0840		32672	0101	271.0	0.54	10.500	580.0	0.002	10.5					
831219	0905		32689	0101	270.0	0.60	12.000	585.0	0.002	12.5	32	172			
MAXIMUM			0.30		278.0	1.45	12.000	600.0	0.2600	12.5	156	520			
ARITH MEAN			0.30		268.1	0.75	10.333	569.6	0.035	10.6	66	130			
GEOM MEAN					268.0	0.71	10.305	569.2		10.6	50	44			
MINIMUM			0.30		257.0	0.50	9.000	540.0	0.002	9.5	20	8			
STD DEV (GEOM *)					6.2	0.27	0.807	20.4		1.0	2*	5*			
# SAMP IN STATISTICS			12		12	12	12	12	9	12	8	8			
% SAMP (EXCLUDED)									25						
*INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT			
					NH3-N	NO2-N	NO3-N	K'DAHL N	LEAD		PO4	PHOSPHOR			
SAMPLE	DATE	DATE	STREAM	WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.			
YYMMDD	HOUR	YYMMDD	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L			
	LMT			DEG.C	AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P			
830117	0850		6	1.0	0.010	0.006	3.190	0.360	0.030<	7.93	0.006	0.019			
830221	0840		6	2.0	0.010	0.011	1.420	0.440	0.030<	8.15	0.001	0.028			
830321	0855		6	1.0	0.040	0.007	2.600	0.320	0.030<	8.17	0.001	0.020			
830418	0830		6	3.0	0.005	0.006	2.500	0.500	0.030<	8.12	0.010	0.026			
830516	0840		6	7.0	0.010	0.011	2.140	0.520	0.030<	8.13	0.006	0.029			
830620	0915		6	17.0	0.005	0.013	1.900	0.320	0.030<	8.17	0.001	0.016			
830718	0935		6	18.0	0.020	0.017	1.880	0.360	0.030<	8.14	0.017	0.031			
830829	0920		6	18.0	0.010	0.009	1.600	0.430	0.030<	8.16	0.006	0.027			
830919	0900		6	15.0	0.020	0.011	1.600	0.370	0.003<	8.11	0.006	0.027			
831017	0835		6	10.0	0.015	0.009	1.830	0.450	0.003	8.10	0.005	0.021			
831121	0840		6	5.0	0.015	0.009	2.090	0.380	0.003<	8.17	0.004	0.025			
831219	0905		6	1.0	0.010	0.007	2.690	0.430	0.003	7.96	0.010	0.023			

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

244

B.O.W./ SITE: OTTER CREEK  
 SAMPLE POINT: AT BRUCE COUNTY ROAD 16 NORTH OF MILDWAY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FC108

STATION ID: 08-0123-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 00 55.44 LONG: 081 07 38.11 U T M: 17 0489800.0 4873375.0 4 REGION: 01 DISTANCE: 87.868

*=-INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD	PH	PP04FR P04	PPUT PHOSPHOR	
SAMPLE DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	
YYMMDD	LMT											
MAXIMUM				18.0	0.040	0.017	3.190	0.520	0.003	8.17	0.017	0.031
ARITH MEAN				8.2	0.014	0.010	2.120	0.407	0.003	8.11	0.006	0.024
GEOM MEAN				4.9	0.012	0.009	2.063	0.402		8.11	0.004	0.024
MINIMUM				1.0	0.005	0.006	1.420	0.320	0.003	7.93	0.001	0.016
STD DEV (GEOM *)				7.1	0.009	0.003	0.528	0.065		0.08	0.005	0.005
# SAMP IN STATISTICS				12	12	12	12	12	2	12	12	12
% SAMP (EXCLUDED)									83			

*=-INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB	ZNUT	
SAMPLE DATE	HOUR	SAMPLE NUMBER	RESIDUE PARTIC. MG/L	TOTAL MF CNT /100ML	TOTAL MF BCKGRD CNT /100ML	TURB'ITY FTU	UNF.TOT. MG/L AS ZN	
YYMMDD	LMT							
830117	0850	32500	4<	6.4	280	740	3.30	0.0100
830221	0840	32517	4<	9.1	330	480	3.90	0.0100
830321	0855	32536	4<	9.6	230	480	3.00	0.0100<
830418	0830	32553	4<	12.0	240	810	4.10	0.0100
830516	0840	32570	4<	7.4	290C	5000	5.90	0.0100<
830620	0915	32587	4<	8.8	1200C	170000	4.20	0.0100<
830718	0935	32604	4<	5.0	4500C	240000>	3.60	0.0100
830829	0920	32621		8.0			4.10	0.0100<
830919	0900	32638		7.7			3.80	0.003
831017	0835	32655		5.5			3.30	0.004
831121	0840	32672		7.0			3.80	0.002
831219	0905	32689	4<	6.1	190	620	3.00	0.002
MAXIMUM				12.0	4500	170000	5.90	0.0100
ARITH MEAN				7.7	907	25447	3.83	0.006
GEOM MEAN				7.5	444		3.77	
MINIMUM				5.0	190	480	3.00	0.002
STD DEV (GEOM *)				2.0	3*		0.77	
# SAMP IN STATISTICS				12	8	7	12	8
% SAMP (EXCLUDED)						12		33

## 1983 WATER QUALITY DATA REGION 1

245

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: DURHAM CONSERVATION AREA  
 STATION TYPE: RIVER

STATION ID: 08-0123-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.40 LONG: 080 47 57.15 U T M: 17 0516050.0 4891650.0 4 REGION: 01 DISTANCE: 131.158

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	ASUT	BOD5	CCNAUR	CCNFUR	CDUT	CLIDUR	COND25
				ALK	ARSENIC	BOD	CYANIDE	CYANIDE	CADMIUM	CHLORIDE	CONDUCT.
SAMPLE DATE	HR	SAMPLE	SAMPLE	PROJECT	TOTAL	5 DAY	AVAIL	FREE	UNF.TOT.	UNF.REAC	25C
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	MG/L	TOT.DEM.	MG/L	MG/L	MG/L	MG/L	UMHO/CM
			M	CODE	AS CAC03	AS AS	AS 0	AS HCN	AS HCN	AS CD	AS CL-
830118	0950	32515	0.30	0101	236.0	0.001<	1.39		0.001<W	0.0020<	451.0
830222	0945	32532	0.30	0101	231.0	0.001<	0.68		0.001<W	0.0020<	438.0
830307	1025	32535	0.30	0101	165.0	0.001<	1.08		0.001<W	0.0020<	322.0
830322	0955	32551	0.30	0101	206.0	0.001	0.64		0.002<T	0.0200<	394.0
830419	0945	32568	0.30	0101	189.0	0.001<	0.55		0.001<W	0.0020<	362.0
830517	0935	32585	0.30	0101	207.0	0.001<	0.49		0.001<W	0.0020<	395.0
830621	0938	32602	0.30	0101	222.0	0.001	0.28		0.001<W	0.0020<	423.0
830719	0930	32619	0.30	0101	215.0	0.001<	0.78		0.002	0.0020<	417.0
830830	1000	32636	0.30	0101	210.0		0.43		0.001<T	0.0020<	405.0
830920	0925	32653	0.30	0101	210.0	0.001<	0.62			0.0002<	418.0
831018	0945	32670	0.30	0101	222.0	0.001<	0.90	0.001<W		0.0002<	442.0
831122	1000	32687	0.30	0101	209.0	0.001<	0.86	0.002<T		0.0002<	363.0
831220	1000	32704	0.30	0101	227.0	0.001<	1.00	0.001<T		0.0002<	446.0
MAXIMUM		0.30			236.0	0.001	1.39	0.002		7.000	451.0
ARITH MEAN		0.30			211.5	0.001	0.75	0.001<A	0.001<A	5.577	405.8
GEOM MEAN					210.6		0.69	0.001<A	0.001<A	5.467	404.1
MINIMUM		0.30			165.0	0.001	0.28	0.001	0.001	3.500	322.0
STD DEV (GEOM %)					18.7		0.30	0.001<A	0.000<A	1.096	38.3
# SAMP IN STATISTICS		13			13	2	13	3	9	13	13
% SAMP (EXCLUDED)						83					

*INTERIM TEST-NAME:		CRUT	CUUT	DO	FCMF	FEUT	FSMF	FWSTRC	FWTEMP	NIUT	NNHTFR
		CHROMIUM	COPPER	DISOLVED	FECAL	IRON	FECAL			NICKEL	NH3-N
SAMPLE DATE	HR	UNF.TOT.	UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.	STREPCUS		WATER	UNF.TOT.	TOTAL
YYMMDD	LMT	MG/L	MG/L	MG/L	MF	MG/L	MF	STREAM	TEMP	MG/L	FIL.REAC
		AS CR	AS CU	AS O	CNT	AS FE	CNT	COND.	DEG.C	AS NI	AS N
830118	0950	32515	0.0200<	0.0600	12.0	4<	0.0500	4<	6	1.0	0.005
830222	0945	32532	0.0200<	0.0100	11.5	8	0.0500	12	6	1.0	0.005<
830307	1025	32535	0.0200<	0.0100<	10.5	24	0.2300	24	6	4.0	0.010
830322	0955	32551	0.0200<	0.0100	10.5	4	0.0500	4	6	1.0	0.005
830419	0945	32568	0.0200<	0.0100<	11.0	4<	0.0400	4	6	3.0	0.005<
830517	0935	32585	0.0200<	0.0100<	10.5	16	0.1400	12	6	9.0	0.015
830621	0938	32602	0.0200<	0.0100	9.0	68	0.0200	24	6	19.0	0.015
830719	0930	32619	0.0200<	0.0100<	9.5	4	0.1400	4<	6	22.5	0.070
830830	1000	32636	0.0200	0.0100<	9.0		0.0900		6	22.0	0.030
830920	0925	32653	0.002	0.006	10.0		0.200		6	16.0	0.015
831018	0945	32670	0.002	0.005	12.5		0.063		6	9.0	0.010

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

246

B.O.W./ SITE: SAUGEE RIVER  
 SAMPLE POINT: DURHAM CONSERVATION AREA  
 STATION TYPE: RIVER

STATION ID: 08-0123-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEE RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.40 LONG: 080 47 57.15 U T M: 17 0516050.0 4891650.0 4 REGION: 01 DISTANCE: 131.158

*INTERIM		TEST-NAME:	CRUT	CUUT	DO	FCMF	FEUT	FSMF	FMSTRC	FWTEMP	NIUT	NNHTFR
			CHROMIUM	COPPER	DISOLVED	FECAL	IRON	FECAL				NH3-N
SAMPLE	DATE	HR	UNF.TOT.	UNF.TOT.	OXYGEN	COLIFORM	UNF.TOT.	STREPCUS		WATER	UNF.TOT.	FIL.REAC
DATE	HR	HR	MG/L	MG/L	MG/L	MF	MG/L	MF	COND.	TEMP	MG/L	MG/L
YYMMDD	LMT	NUMBER	AS CR	AS CU	AS O	CNT	AS FE	CNT		DEG.C	AS NI	AS N
						/100ML		/100ML				
831122	1000	32687	0.001	0.005	12.5		0.250		6	4.0		0.005
831220	1000	32704	0.003	0.006	12.5	8	0.051	4<	6	1.0	0.001	0.005
MAXIMUM			0.0200	0.0600	12.5	68	0.250	24		22.5	0.001	0.070
ARITH MEAN			0.006	0.014	10.8	19	0.106	13		8.7	0.001	0.017
GEOM MEAN					10.8		0.081			4.7		
MINIMUM			0.001	0.005	9.0	4	0.0200	4		1.0	0.001	0.005
STD DEV (GEOM *)					1.3		0.078			8.4		
# SAMP IN STATISTICS			5	8	13	7	13	6		13	1	11
% SAMP (EXCLUDED)			61	38		22		33				15

*INTERIM		TEST-NAME:	NNO2FR	NNO3FR	NNTKUR	PBUT	PH	PHNOL	PPO4FR	PPUT	PSAMF	P1PCBT
			NO2-N	NO3-N	K'DAHL N	LEAD		PHENOLS	PO4	PHOSPHOR	PSEUDOMN	PCB
SAMPLE	DATE	HR	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		UNF-REAC	FIL.REAC	UNF.TOT.	AERUG.	TOTAL
DATE	HR	HR	MG/L	MG/L	MG/L	MG/L		UG/L	MG/L	MG/L	MF	MG/L
YYMMDD	LMT	NUMBER	AS N	AS N	AS N	AS PB	PH	PHENOL	AS P	AS P	CNT	NG/L
											/100ML	
830118	0950	32515	0.001	0.620	0.300	0.030<	8.18	1.000	0.001	0.007	4<	20<W
830222	0945	32532	0.001	0.620	0.260	0.030<	8.23	1.000<	0.001<	0.007	4<	20<W
830307	1025	32535	0.001	0.360	0.370	0.030	8.34	1.000	0.008	0.027	4<	40
830322	0955	32551	0.001	0.310	0.380	0.030<	8.24	1.000	0.001<	0.011	4<	20<W
830419	0945	32568	0.001	0.250	0.250	0.310<	8.40	1.000	0.001<	0.007	4<	20<W
830517	0935	32585	0.002	0.250	0.380	0.030<	8.25	1.000<	0.001<	0.011	4<	20<W
830621	0938	32602	0.003	0.380	0.360	0.030<	8.26	1.000<	0.004	0.009	4<	25
830719	0930	32619	0.007	0.470	0.500	0.030<	8.26	1.000	0.010	0.029	4<	20<W
830830	1000	32636	0.003	0.390	0.420	0.030<	8.33	1.000<	0.001<	0.011		20<W
830920	0925	32653	0.002	0.330	0.360	0.005	8.26	1.000<	0.001	0.007		20<W
831018	0945	32670	0.001	0.200	0.440	0.003<	8.26	1.500	0.001<	0.007		
831122	1000	32687	0.003	0.350	0.530	0.003<	8.12	1.000	0.001	0.025		
831220	1000	32704	0.002	0.430	0.350	0.016	8.13	1.500	0.001	0.007	4<	20<W
MAXIMUM			0.007	0.620	0.530	0.030	8.40	1.500	0.010	0.029		40
ARITH MEAN			0.002	0.382	0.377	0.017	8.25	1.125	0.004	0.013		22<A
GEOM MEAN			0.002	0.362	0.369		8.25			0.011		22<A
MINIMUM			0.001	0.200	0.250	0.005	8.12	1.000	0.001	0.007		20
STD DEV (GEOM *)			0.002	0.129	0.082		0.08			0.008		6<A
# SAMP IN STATISTICS			13	13	13	3	13	8	7	13		11
% SAMP (EXCLUDED)						76		38	46			

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

247

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: DURHAM CONSERVATION AREA  
 STATION TYPE: RIVER

STATION ID: 08-0123-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 10 47.40 LONG: 080 47 57.15 U T M: 17 0516050.0 4891650.0 4 REGION: 01 DISTANCE: 131.158

**=INTERIM TEST-NAME:		RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB	X3245	ZNUT
SAMPLE DATE	HR	RESIDUE PARTIC.	MF CNT	BCKGRD CNT	TURB'ITY FTU	2,4,5 TRCHLORO PHENOL	ZINC UNF.TOT. MG/L AS ZN
YYMMDD	LMT	SAMPLE NUMBER	MG/L	/100ML	/100ML	NG/L	
830118	0950	32515	0.1<	20AID	210	0.89	50<W 0.0200
830222	0945	32532	2.6	10<	220	1.69	50<W 0.0100<
830307	1025	32535	9.6	210	1230	5.10	50<W 0.0100
830322	0955	32551	2.8	92	260	1.81	50<W 0.0100
830419	0945	32568	4.0	20AID	50	1.23	50<W 0.0100<
830517	0935	32585	1.8	132C	3640	2.30	50<W 0.0100<
830621	0938	32602	3.1	300AID	13000	2.40	50<W 0.0100<
830719	0930	32619	2.9	30C	20000	2.90	50<W 0.0100
830830	1000	32636	2.7			2.20	50<W 0.0100<
830920	0925	32653	2.2			1.40	50<W 0.260
831018	0945	32670	2.1			1.30	0.001 <
831122	1000	32687	10.3			5.10	50<W 0.003
831220	1000	32704	1.3	40AID	300	0.75	50<W 0.002
MAXIMUM			10.3	300	20000	5.10	50 0.260
ARITH MEAN			3.8	105	4323	2.24	50<A 0.045
GEOM MEAN					841	1.90	50<A
MINIMUM			1.3	20	50	0.75	50 0.002
STD DEV (GEOM *)					8*	1.41	0<A
# SAMP IN STATISTICS			12	8	9	13	12 7
% SAMP (EXCLUDED)			7	11			46



## 1983 WATER QUALITY DATA REGION 1

248

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGUYNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09 U T M: 17 0474075.0 4922390.0 4 REGION: 01 DISTANCE: 11.909

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	CDUT	COND25	CUUT	FWFLOW	HGUT	NNOTFR	NN02FR
SAMPLE DATE	TIME	SAMPLE DEPTH	PROJECT SUB-PROJ	ALK TOTAL	CADMIUM	CONDUCT.	COPPER	STREAM FLOW	MERCURY	NO2+NO3N	NO2-N
YYMMDD	LMT	NUMBER	CODE	MG/L	MG/L	25C	MG/L	M3	UG/L	MG/L	MG/L
		M		AS CAC03	AS CD	AT 25 C	AS CU	/S	AS HG	AS N	AS N
830117	1700	41400	0103	245.8	0.0002<		0.003	52.000	0.02U	1.800	0.0200
830308	1650	41402	0103	194.4	0.0002<		0.003	135.000	0.02<	1.200	0.0150
830309	1650	41403	0103	190.2	0.0004		0.008	140.000	0.02U	1.250	0.0020
830310	1700	41404	0103		0.0006		0.007	127.000	0.01U		
830314	1705	41405	0103	214.3	0.0003		0.002	63.100	0.01U	1.350	0.0015<T
830328	1635	41406	0103	228.0	0.0002<		0.016	64.100	0.01U	1.300	0.0015<T
830411	1730	41407	0103	208.3	0.0002	443.0	0.002	134.000	0.01<	1.460	0.0050
830412	1640	41408	0103	203.4	0.0002<	427.0	0.002	126.000	0.01<	1.330	0.0020
830413	1700	41409	0103	204.3	0.0002<	431.0	0.001	105.000	0.01	1.160	0.0015<T
830414	1750	41410	0103	204.3	0.0005	447.0	0.009	96.500	0.01	1.140	0.0020
830415	1545	41411	0103	207.8	0.0004	444.0		116.000	0.01	1.280	0.0065
830416	1735	41412	0103	213.6	0.0005	451.0	0.008	114.000	0.01	1.320	0.0135
830417	1800	41413	0103	211.2	0.0005	447.0	0.007	104.000	0.01	1.280	0.0195
830418	1830	41414	0103	212.7	0.0006	450.0	0.009	89.600	0.01	1.250	0.0240
830425	1750	41415	0103	223.9	0.0010	492.0	0.008	45.400		1.300	0.0090
830502	1647	41416	0103	207.0	0.0002<	380.0	0.013	155.000		1.600	0.0095
830503	1710	41417	0103	199.9	0.0002<	418.0	0.008	177.000	0.02U	1.610	0.0070
830504	1300	41418	0103	203.9	0.0002	429.0	0.009	138.000	0.02U	1.350	0.0045
830505	1650	41419	0103	210.2	0.0002<	443.0	0.002	112.000	0.02U		
830508	1800	41420	0103		0.0002<	406.0	0.003	121.000	0.02U		
830509	1650	41421	0103	212.4	0.0003	460.0	0.011	110.000	0.01U		
830510	1650	41422	0103	213.6	0.0004	452.0	0.012	95.600	0.01U	1.000	0.0020
830530	1700	41423	0103	224.8	0.0003	468.0		63.900	0.02U		
830627	1300	41424	0103	206.9		535.0	0.012	18.300	0.02U	0.690	0.0065
830712	1300	41425	0103	200.5	0.0002	506.0	0.005	15.000	0.02U	0.560	0.0270
830926	0820	41426	0103	198.9	0.0002<	467.0	0.003	55.900	0.02U	1.520	0.0135
831011	0810	41426	0103		0.0002<		0.010	38.400	0.01U		
831025	0820	41427	0103	236.5	0.0002	573.0	0.008	32.500	0.02U	0.980	0.0070
831108	0810	41428	0103	237.1	0.0002<	552.0	0.009	33.300	0.02U	0.970	0.0040
831122	0815	41429	0103	236.1	0.0002<	547.0	0.009	71.600	0.01U	1.560	0.0345
831205	0810	41430	0103	230.7	0.0002<	560.0	0.007	42.900	0.01U	1.310	0.0050
MAXIMUM		0.30		245.8	0.0010	573.0	0.016	177.000	0.02	1.800	0.0345
ARITH MEAN		0.30		213.6	0.0004	467.8	0.007	90.068	0.01	1.263	0.0097<A
GEOM MEAN				213.2		465.2	0.006	77.186		1.228	0.0063<A
MINIMUM		0.30		190.2	0.0002	380.0	0.001	15.000	0.01	0.560	0.0015
STD DEV (GEOM *)				14.1		51.7	0.004	43.203		0.276	0.0090<A
# SAMP IN STATISTICS		31		28	16	24	29	31	26	25	25
% SAMP (EXCLUDED)					46				10		

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

249

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGOWNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09 U T M: 17 0474075.0 4922390.0 4 REGION: 01 DISTANCE: 11.909

*INTERIM TEST-NAME:		NNO3FR NO3-N	PBUT LEAD	PH	POALA	POMET	PP04FR P04	PPUT PHOSPHOR	PIALDR	PIBHCG	PICHLA	
SAMPLE DATE	HOOR LMT	FIL.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	ALACHLOR NG/L	METALA- CHLOR NG/L	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	ALDRIN NG/L	BHC GAMMA HG/L	CHLRDANE ALPHA NG/L	
830117	1700	41400	1.780	0.003<	8.20	100<W	100<W	0.0100	0.062	40<W	40<W	10<W
830308	1650	41402	1.190	0.003<	8.15	100<W	100<W	0.0100	0.047	40<W	40<W	10<W
830309	1650	41403	1.250	0.004	8.10	100<W	100<W	0.0095	0.051	40<W	40<W	10<W
830310	1700	41404		0.003<								
830314	1705	41405	1.350	0.004	8.30	100<W	100<W	0.0040	0.023	40<W	40<W	10<W
830328	1635	41406	1.300	0.003	8.28	100<W	100<W	0.0070	0.033	40<W	40<W	10<W
830411	1730	41407	1.460	0.003<	8.10	100<W	100<W	0.0140	0.066	40<W	40<W	10<W
830412	1640	41408	1.330	0.003<	8.16			0.0080	0.043			
830413	1700	41409	1.160	0.003<	8.17			0.0050	0.030			
830414	1750	41410	1.140	0.003<	8.37			0.0050	0.057			
830415	1545	41411	1.270	0.003<	8.06			0.0195	0.062			
830416	1735	41412	1.310	0.008	8.28			0.0110	0.046			
830417	1800	41413	1.260	0.003<	8.31			0.0080	0.030			
830418	1830	41414	1.230	0.004	8.39			0.0040	0.024			
830425	1750	41415	1.300	0.003	8.46	100<W	100<W	0.0075	0.027	40<W	40<W	10<W
830502	1647	41416	1.590	0.008	7.69			0.0430	0.630			
830503	1710	41417	1.600	0.003<	7.89			0.0365	0.135			
830504	1300	41418	1.350	0.003<	8.16			0.0170	0.087			
830505	1650	41419		0.003<	8.23				0.040			
830508	1800	41420		0.003<	8.03				0.066			
830509	1650	41421		0.005	8.24				0.049			
830510	1650	41422	1.000	0.008	8.33	100<W	100<W	0.0100	0.030	40<W	40<W	10<W
830530	1700	41423		0.003<	8.39				0.031			
830627	1300	41424	0.683	0.004	8.13			0.0060	0.033			
830712	1300	41425	0.533	0.003<	8.25	100<W	100<W	0.0045	0.023	40<W	40<W	10<W
830926	0820	41426	1.510	0.003<	8.28	100<W	100<W	0.0050	0.050	40<W	40<W	10<W
831011	0810	41426		0.003<								
831025	0820	41427	0.973	0.003<	8.34	100<W	100<W		0.078	40<W	40<W	10<W
831108	0810	41428	0.966	0.003<	8.39	100<W	100<W	0.0030	0.015	40<W	40<W	10<W
831122	0815	41429	1.530	0.003<	8.42	100<W	100<W		0.127	40<W	40<W	10<W
831205	0810	41430	1.300	0.003<	8.35	100<W	100<W	0.0030	0.015	40<W	40<W	10<W
MAXIMUM		1.780	0.008	8.46	100	100	0.0430	0.630	40	40	10	
ARITH MEAN		1.255	0.005	8.22	100<A	100<A	0.0109	0.069	40<A	40<A	10<A	
GEOM MEAN		1.219		8.22	100<A	100<A	0.0083	0.047	40<A	40<A	10<A	
MINIMUM		0.533	0.003	7.69	100	100	0.0030	0.015	40	40	10	
STD DEV (GEOM *)		0.276		0.17	0<A	0<A	0.0101	0.112	0<A	0<A	0<A	
# SAMP IN STATISTICS		25	10	29	14	14	23	29	14	14	14	
% SAMP (EXCLUDED)			67									

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

250

B.O.W./ SITE: SAUGEEN RIVER

SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGOWNE SR-6

STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE HURON

TERM STREAM: SAUGEEN RIVER

STORET CODE: 02

002

1260

LAT: 44 27 22.68 LONG: 081 19 33.09

U T M: 17 0474075.0 4922390.0 4

REGION: 01

DISTANCE: 11.909

*INTERIM		TEST-NAME:	P1DIEL	P1DMDT	P1ENDR	P1ENDT	P1HEPE HEPTA CHLOR	P1HEPT	P1MIRX	P1OPDT	P1PCBT	P1PPDE
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	DIELDRIN NG/L	DMDT MTHXYLLR NG/L	ENDRIN NG/L	ENDOSULP TOTAL NG/L	EPOXIDE NG/L	HEPACHOR NG/L	MIREX NG/L	OP-DDT NG/L	PCB TOTAL NG/L	PP-DDE NG/L
830117	1700	41400	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830308	1650	41402	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830309	1650	41403	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830314	1705	41405	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830328	1635	41406	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830411	1730	41407	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830425	1750	41415	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830510	1650	41422	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830712	1300	41425	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
830926	0820	41426	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
831025	0820	41427	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
831108	0810	41428	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
831122	0815	41429	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
831205	0810	41430	1<W	40<W	20<W	5<W	2<W	40<W	40<W	2<W	6<W	1<W
MAXIMUM			1	40	20	5	2	40	40	2	6	1
ARITH MEAN			1<A	40<A	20<A	5<A	2<A	40<A	40<A	2<A	6<A	1<A
GEOM MEAN			1<A	40<A	20<A	5<A	2<A	40<A	40<A	2<A	6<A	1<A
MINIMUM			1	40	20	5	2	40	40	2	6	1
STD DEV (GEOM *)			0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A
# SAMP IN STATISTICS			14	14	14	14	14	14	13	14	14	14
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		P1PPDT	P2ATRA	P2CYAN	P2CYPR	P2DATR	P2PROM	P2SENC	P2SIM	P3DICA	P3MCPA	
SAMPLE DATE	HOUR	SAMPLE	PP-DDT	ATRAZINE	CYNAZINE	CYPRAZIN	DE-ETYL ATRAZINE	PROMETON	SENCOR	SIMAZINE	DICAMBA	MCPA
YYMMDD	LMT	NUMBER	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L
830117	1700	41400	2<W	20<W	20<W	20<W	100	20<W	20<W	20<W	100<W	100<W
830308	1650	41402	2<W	100	20<W	20<W	20<W	20<W	20<W	20<W	100<W	100<W
830309	1650	41403	2<W	100	20<W	20<W	20<W	20<W	20<W	20<W	100<W	100<W
830314	1705	41405	2<W	20<W	20<W	20<W	20<W	20<W	20<W	20<W	100<W	100<W
830328	1635	41406	2<W	100	20<W	20<W	20<W	20<W	20<W	20<W	100<W	100<W
830411	1730	41407	2<W	100	20<W	20<W	100	20<W	20<W	20<W	100<W	100<W
830425	1750	41415	2<W	20<W	20<W	20<W	20<W	20<W	20<W	20<W	100<W	100<W
830510	1650	41422	2<W	100	20<W	20<W	300	20<W	20<W	20<W	100<W	100<W
830712	1300	41425	2<W	300	20<W	20<W	20<W	20<W	20<W	20<W	100<W	100<W
830926	0820	41426	2<W	300	20<W	20<W	200	20<W	20<W	20<W	100<W	100<W
831025	0820	41427	2<W	20<W	20<W	20<W	20<W	20<W	20<W	20<W	100<W	100<W
831108	0810	41428	2<W	20<W	100<W	20<W	300	20<W	20<W	20<W	100<W	100<W

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

251

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGUYNE SR-6  
 STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 27 22.68 LONG: 081 19 33.09 U T M: 17 0474075.0 4922390.0 4 REGION: 01 DISTANCE: 11.909

*INTERIM TEST-NAME:		P1PPDT	P2ATRA	P2CYAN	P2CYPR	P2DATR	P2PROM	P2SENC	P2SIM	P3DICA	P3MCPA	
SAMPLE DATE	HHMM	SAMPLE NUMBER	PP-DDT NG/L	ATRAZINE NG/L	CYNAZINE NG/L	CYPRAZIN NG/L	DE-ETYL ATRAZINE NG/L	PROMETON NG/L	SENCOR NG/L	SIMAZINE NG/L	DICAMBA NG/L	MCPA NG/L
831122	0815	41429	2<W	100	100	20<W	200	20<W	20<W	20<W	100<W	100<W
831205	0810	41430	2<W	20<W	20<W	20<W	100	20<W	20<W	20<W	100<W	100<W
MAXIMUM		2	308	100	20	300	20	20	20	100	100	
ARITH MEAN		2<A	94<A	31<A	20<A	103<A	20<A	20<A	20<A	100<A	100<A	
GEOM MEAN		2<A	59<A	25<A	20<A	58<A	20<A	20<A	20<A	100<A	100<A	
MINIMUM		2	20	20	20	20	20	20	20	100	100	
STD DEV (GEOM %)		0<A	95<A	29<A	0<A	105<A	0<A	0<A	0<A	0<A	0<A	
# SAMP IN STATISTICS		14	14	14	14	14	14	14	14	14	14	
% SAMP (EXCLUDED)												

*INTERIM TEST-NAME:		P3MCPB	P3MCPD	P3SILV	P324D	P324DB	P324DP	P324ST	P4CLFN CHLORO FENVIN PHOS	P4DEMT	P4DIAZ
SAMPLE DATE	HHMM	SAMPLE NUMBER	MCPB NG/L	MCPD NG/L	SILVEX NG/L	2,4-D NG/L	2,4-DB NG/L	2,4-DP NG/L	2,4,5-T NG/L	DEMETON NG/L	DIAZINON NG/L
830117	1700	41400	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830308	1650	41402	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830309	1650	41403	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830314	1705	41405	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830328	1635	41406	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830411	1730	41407	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830425	1750	41415	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830510	1650	41422	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830712	1300	41425	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
830926	0820	41426	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
831025	0820	41427	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
831108	0810	41428	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
831122	0815	41429	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
831205	0810	41430	100<W	100<W	100<W	100<W	500<W	100<W	100<W	1000<W	50<W
MAXIMUM		100	100	100	100	500	100	100	1000	1000	50
ARITH MEAN		100<A	100<A	100<A	100<A	500<A	100<A	100<A	1000<A	1000<A	50<A
GEOM MEAN		100<A	100<A	100<A	100<A	500<A	100<A	100<A	1000<A	1000<A	50<A
MINIMUM		100	100	100	100	500	100	100	1000	1000	50
STD DEV (GEOM %)		0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A
# SAMP IN STATISTICS		14	14	14	14	14	14	14	14	14	14
% SAMP (EXCLUDED)											

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

252

B.O.W./ SITE: SAUGEEN RIVER

SAMPLE POINT: BRUCE CO ROAD 3, NORTH OF BURGOWNE SR-6

STATION TYPE: RIVER FLOW GAUGE FED 02FC001

STATION ID: 08-0123-030-82

MAJOR BASIN: GREAT LAKES

MINOR BASIN: LAKE HURON

TERM STREAM: SAUGEEN RIVER

STORET CODE: 02

002

1260

LAT: 44 27 22.68 LONG: 081 19 33.09

U T M: 17 0474075.0 4922390.0 4

REGION: 01

DISTANCE: 11.909

*#INTERIM		TEST-NAME:	P4DIME	P4DURS	P4ETHI	P4GUTH	P4LEPO	P4MALA	P4PALO	P4PARA	P4PMET	P6CARB
SAMPLE												
DATE	HR	SAMPLE	DIMETHOK	DURSBAN	ETHION	GUTHION	LEPTPHOS	MALTHION	PHOSLONE	PARTHION	PHOSMET	CARBO-
YYMMDD	LMT	NUMBER	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	FURAN
830117	1700	41400	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
830308	1650	41402	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
830309	1650	41403	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
830314	1705	41405	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
830328	1635	41406	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
830411	1730	41407	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
830425	1750	41415	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
830510	1650	41422	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	1000<W
830712	1300	41425	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	1000<W
830926	0820	41426	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	1000<W
831025	0820	41427	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	1000<W
831108	0810	41428	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	1000<W
831122	0815	41429	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
831205	0810	41430	250<W	100<W	100<W	5000<W	1000<W	100<W	500<W	50<W	2000<W	
MAXIMUM			250	100	100	5000	1000	100	500	50	2000	1000
ARITH MEAN			250<A	100<A	100<A	5000<A	1000<A	100<A	500<A	50<A	2000<A	1000<A
GEOM MEAN			250<A	100<A	100<A	5000<A	1000<A	100<A	500<A	50<A	2000<A	1000<A
MINIMUM			250	100	100	5000	1000	100	500	50	2000	1000
STD DEV (GEOM *)			0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A	0<A
# SAMP IN STATISTICS			14	14	14	14	14	14	14	14	14	5
% SAMP (EXCLUDED)												

*=INTERIM		TEST-NAME:	P6CARY	P6CYCL	P6EPTN	P6MOLI	P6PEBU	P6SUTN	P6VERN	RSP	
SAMPLE	DATE	HR	SAMPLE	CARBARYL	CYCLOATE	EPTAM	MOLINATE	PEBULATE	SUTAN	VERNLATE	RESIDUE
YYMMDD		LMT	NUMBER	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	PARTIC.
											MG/L
830117	1700		41400								75.700
830308	1650		41402								40.900
830309	1650		41403								34.800
830314	1705		41405								6.730
830328	1635		41406								10.900
830411	1730		41407								33.400
830412	1640		41408								25.700
830413	1700		41409								20.000
830414	1750		41410								27.700
830415	1545		41411								34.300
830416	1735		41412								22.100
830417	1800		41413								17.300

(CONTD)



## 1983 WATER QUALITY DATA REGION 1

254

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT CONC.ROAD 2.5 MILES EAST OF CARGILL  
 STATION TYPE: RIVER

STATION ID: 08-0123-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 12 19.81 LONG: 081 11 42.89 U T M: 17 0484400.0 4894500.0 4 REGION: 01 DISTANCE: 63.889

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	BOD5 BOD 5 DAY	CLIDUR	COND25	CUUT	DO	FCMF FECAL COLIFORM
SAMPLE		SAMPLE	PROJECT	ALK	ARSENIC	TOT.DEM.	CHLORIDE	CONDUCT.	COPPER	DISOLVED	CNT
DATE	HR	NUMBER	DEPTH	TOTAL	UNF.TOT.	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF
YYMMDD	LMT		M	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	/100ML
				AS CAC03	AS AS	AS O	AS CL-	AT 25 C	AS CU	AS O	
830117	1325	32509	0.30	0101	329.0	0.001<	1.48	8.500	562.0	0.0100<	4
830221	1320	32526	0.30	0101	246.0	0.001<	1.14	9.500	570.0	0.0100	84
830321	1325	32545	0.30	0101	224.0	0.001	0.52	8.000	485.0	0.0100<	80
830418	1200	32562	0.30	0101	215.0	0.001<	0.76	7.000	477.0	0.0100<	36
830516	1305	32579	0.30	0101	219.0	0.001<	0.96	7.000	495.0	0.0100<	88
830620	1330	32596	0.30	0101	224.0	0.001	0.11	8.000	575.0	0.0100<	4
830719		32613	0.30	0101	207.0		0.27	9.000	620.0	0.0100	68
830829	1330	32630	0.30	0101	211.0	0.001<	0.36	9.000	600.0	0.0100	9.5
830919	1325	32647	0.30	0101	218.0	0.001<	0.81	10.500	675.0	0.001 <	11.0
831017	1320	32664	0.30	0101	235.0	0.001<	0.86	9.000	560.0	0.015	13.0
831121	1305	32681	0.30	0101	243.0	0.001<	0.92	9.500	580.0	0.008	12.5
831219	1330	32698	0.30	0101	240.0	0.001<	0.91	10.000	560.0	0.009	36
MAXIMUM		0.30			329.0	0.001	1.48	10.500	675.0	0.015	88
ARITH MEAN		0.30			234.2	0.001	0.76	8.750	563.2	0.010	50
GEOM MEAN					232.5		0.63	8.685	560.6		31
MINIMUM		0.30			207.0	0.001	0.11	7.000	477.0	0.008	4
STD DEV (GEOM *)					32.5		0.39	1.098	57.0		4*
# SAMP IN STATISTICS		12			12	2	12	12	6	12	8
% SAMP (EXCLUDED)						81			50		
*INTERIM TEST-NAME:		FEUT	FSMF FECAL STREPCUS	FMSTRC	FMTMP	NNHTFR NH3-N TOTAL	NN02FR	NN03FR	NNTKUR K'DAHL N TOTAL	PBUT	PH
SAMPLE		IRON	UNF.TOT.	STREAM	WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	LEAD	
DATE	HR	UNF.TOT.	MG/L	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	AS PB	PH
YYMMDD	LMT	AS FE	/100ML		DEG.C	AS N	AS N	AS N	AS N		
830117	1325	0.3000	4	6	1.0	0.035	0.004	1.600	0.400	0.030<	8.15
830221	1320	0.4400	88	6	3.0	0.030	0.018	1.810	0.380	0.030<	8.29
830321	1325	0.1800	12	6	1.0	0.025	0.006	1.120	0.480	0.030<	8.33
830418	1200	0.1300	16	6	3.0	0.025	0.005	1.160	0.440	0.030<	8.38
830516	1305	0.5200	4	6	10.0	0.040	0.014	1.100	0.550	0.030<	8.35
830620	1330	0.1200	4<	6	23.0	0.025	0.008	0.810	0.410	0.030<	8.34
830719		0.1200	24	6	25.0	0.025	0.006	0.750	0.380	0.030<	8.22
830829	1330	0.1700		6	24.0	0.025	0.004	0.610	0.360	0.030<	8.31
830919	1325	0.130		6	17.0	0.045	0.006	0.870	0.360	0.003<	8.27
831017	1320	0.210		6	10.0	0.010	0.005	0.920	0.540	0.005	8.33
831121	1305	0.170		6	5.0	0.015	0.007	1.390	0.440	0.003<	8.27
831219	1330	0.400	32	6	1.0	0.020	0.006	1.560	0.600	0.017	8.17

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

255

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT CONC. ROAD 2.5 MILES EAST OF CARGILL  
 STATION TYPE: RIVER

STATION ID: 08-0123-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 12 19.81 LONG: 081 11 42.89 U T M: 17 0484400.0 4894500.0 4 REGION: 01 DISTANCE: 63.889

*=INTERIM	TEST-NAME:	FEUT	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT	PH
SAMPLE DATE HOUR YYMMDD LHT	SAMPLE NUMBER	IRON UNF.TOT. MG/L AS FE	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH
	MAXIMUM	0.5200	88		25.0	0.045	0.018	1.810	0.600	0.017	8.38
	ARITH MEAN	0.241	26		10.2	0.027	0.007	1.142	0.445	0.011	8.28
	GEOM MEAN	0.210			5.6	0.025	0.007	1.085	0.439		8.28
	MINIMUM	0.1200	4		1.0	0.010	0.004	0.610	0.360	0.005	8.15
	STD DEV (GEOM *)	0.140			9.6	0.010	0.004	0.377	0.081		0.07
	# SAMP IN STATISTICS	12	7		12	12	12	12	12	2	12
	% SAMP (EXCLUDED)		12							83	
*=INTERIM	TEST-NAME:	PHNOL	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSF	RSP	RST	TCMF COLIFORM TOTAL MF	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB
SAMPLE DATE HOUR YYMMDD LHT	SAMPLE NUMBER	PHENOLS UNF-REAC UG/L PHENOL	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	RESIDUE TOTAL MG/L	CNT /100ML	CNT /100ML	TURB'ITY FTU
830117 1325	32509	1.000<	0.001	0.022	4	361.7	22.9	384.6	50AID	120	6.90
830221 1320	32526		0.001	0.024	4<	413.8	27.4	441.2	180	420	9.80
830321 1325	32545		0.010	0.033	4<	274.7	12.3	287.0	430	390	6.50
830418 1200	32562		0.001	0.013	4<	314.7	7.7	322.4	3200	12300	2.30
830516 1305	32579		0.002	0.019	4<	314.5	16.0	330.5	540C	8100	15.90
830620 1330	32596		0.001	0.018	4<	391.6	6.6	398.2	144C	4800>	5.00
830719	32613		0.009	0.019	4	410.4	6.2	416.6	110C	4410	6.70
830829 1330	32630		0.002	0.018		472.8	10.0	482.8			5.70
830919 1325	32647		0.003	0.027		544.0	21.8	565.8			1.20
831017 1320	32664		0.003	0.016		374.4	6.9	381.3			4.30
831121 1305	32681		0.005	0.025		388.5	10.5	399.0			5.80
831219 1330	32698		0.002	0.027	4<	353.9	28.1	382.0	250	660	8.50
	MAXIMUM		0.010	0.033	4	544.0	28.1	565.8	3200	12300	15.90
	ARITH MEAN		0.003	0.022	4	384.6	14.7	399.3	613	3771	6.55
	GEOM MEAN		0.002	0.021		378.5	12.7	393.2	268		5.51
	MINIMUM		0.001	0.013	4	274.7	6.2	287.0	50	120	1.20
	STD DEV (GEOM *)		0.003	0.006		72.8	8.3	74.4	4*		3.78
	# SAMP IN STATISTICS		12	12	2	12	12	12	8	7	12
	% SAMP (EXCLUDED)				75					12	

(CONTD)



## 1983 WATER QUALITY DATA REGION 1

256

B.O.W./ SITE: SAUGEEN RIVER  
SAMPLE POINT: AT CONC.ROAD 2.5 MILES EAST OF CARGILL  
STATION TYPE: RIVER

STATION ID: 08-0123-038-02

MAJOR BASIN: GREAT LAKES  
MINOR BASIN: LAKE HURON  
TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
002  
1260

LAT: 44 12 19.81 LONG: 081 11 42.89 U T M: 17 0484400.0 4894500.0 4 REGION: 01 DISTANCE: 63.889

\*=INTERIM TEST-NAME: ZNUT  
ZINC  
SAMPLE UNF.TOT.  
DATE HOUR SAMPLE MG/L  
YYMMDD LMT NUMBER AS ZN

830117	1325	32509	0.0100
830221	1320	32526	0.0100
830321	1325	32545	0.0100<
830418	1200	32562	0.0100<
830516	1305	32579	0.0100<
830620	1330	32596	0.0100<
830719		32613	0.0100<
830829	1330	32630	0.0100<
830919	1325	32647	0.002
831017	1320	32664	0.005
831121	1305	32681	0.003
831219	1330	32698	0.004

MAXIMUM 0.0100  
ARITH MEAN 0.006  
GEOM MEAN  
MINIMUM 0.002  
STD DEV (GEOM \*)  
# SAMP IN STATISTICS 6  
% SAMP (EXCLUDED) 50

## 1983 WATER QUALITY DATA REGION

257

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: AT COUNTY ROAD 1  
 STATION TYPE: RIVER

STATION ID: 08-0123-039-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 18 02.73 LONG: 081 16 50.90 U T M: 17 0477600.0 4905100.0 4 REGION: 01 DISTANCE: 39.589

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	FCMF	FEUT	FSMF	FWSTRC
SAMPLE	DATE	DATE	SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	FCAL	IRON	STREPCUS
DATE	HHMM	HHMM	DEPTH	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	MF	UNF.TOT.	MF
YYMMDD	LMT	NUMBER	M	CODE	MG/L	MG/L	UMHO/CM	MG/L	CNT	MG/L	CNT
					AS CACO3	AS CL-	AT 25 C	AS CU	/100HL	AS FE	/100HL
830117	1030	32503	0.30	0101	237.0	13.000	520.0	0.0100<	60	0.1200	116
830221	1020	32520	0.30	0101	212.0	10.500	449.0	0.0100	68	0.7600	232
830321	1035	32539	0.30	0101	221.0	12.000	470.0	0.0100<	12	0.0190	4<
830418	0950	32556	0.30	0101	216.0	10.500	459.0	0.0100<	4	0.1800	4<
830516	1010	32573	0.30	0101	232.0	14.000	500.0	0.0100<	8	0.2300	4<
830620	1045	32590	0.30	0101	225.0	16.000	505.0	0.0200	8	0.2300	4<
830718	1055	32607	0.30	0101	180.0	18.000	450.0	0.0100<	48	0.3000	20
830829	1030	32624	0.30	0101	193.0	18.000	495.0	0.0100<		0.1600	6
830919	1030	32641	0.30	0101	211.0	20.500	530.0	0.001 <		0.095	6
831017	1030	32658	0.30	0101	243.0	17.000	570.0	0.012		0.300	6
831121	1020	32675	0.30	0101	237.0	15.000	545.0	0.007		0.150	6
831219	1055	32692	0.30	0101	216.0	14.500	500.0	0.007	52	0.130	120
		MAXIMUM	0.30		243.0	20.500	570.0	0.0200	68	0.7600	232
		ARITH MEAN	0.30		218.6	14.917	499.4	0.011	32	0.223	122
		GEOM MEAN			217.8	14.610	498.1		21	0.166	
		MINIMUM	0.30		180.0	10.500	449.0	0.007	4	0.0190	20
		STD DEV (GEOM *)			18.5	3.132	38.1		3*	0.188	
		# SAMP IN STATISTICS	12		12	12	12	5	8	12	4
		% SAMP (EXCLUDED)					58				50

*=INTERIM	TEST-NAME:	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL	PP04FR	PPUT
			NH3-N			K'DAHL N					
SAMPLE	DATE	DATE	WATER	FIL.REAC	FIL.REAC	FIL.REAC	LEAD		PHENOLS	P04	PHOSPHOR
DATE	HHMM	HHMM	TEMP	MG/L	MG/L	MG/L	UNF.TOT.		UNF.REAC	FIL.REAC	UNF.TOT.
YYMMDD	LMT	NUMBER	DEG.C	AS N	AS N	AS N	MG/L	AS PB	UG/L	MG/L	MG/L
830117	1030	32503	1.0	0.010	0.006	2.640	0.540	0.030<	7.97	1.000<	0.003
830221	1020	32520	1.0	0.010	0.025	4.230	0.600	0.030<	8.13	1.000<	0.014
830321	1035	32539	1.0	0.020	0.007	1.800	0.600	0.030<	8.23	1.000<	0.020
830418	0950	32556	4.0	0.010	0.007	1.880	0.450	0.030<	8.24	1.000	0.001
830516	1010	32573	8.0	0.020	0.009	1.500	0.600	0.030<	8.34	1.000	0.004
830620	1045	32590	21.0	0.050	0.014	0.980	0.660	0.030<	8.24	1.000	0.008
830718	1055	32607	24.0	0.055	0.009	0.330	0.560	0.030<	8.11	1.000	0.013
830829	1030	32624	16.0	0.035	0.004	0.340	0.570	0.030<	8.13	1.000<	0.003
830919	1030	32641	16.0	0.030	0.002	0.640	0.370	0.003<	8.14	1.000<	0.003
831017	1030	32658	10.0	0.025	0.004	1.510	0.810	0.003<	8.18	1.000	0.006
831121	1020	32675	5.0	0.005<	0.004	1.770	0.500	0.003<	8.17	1.000	0.001
831219	1055	32692	1.0	0.010	0.007	2.540	0.660	0.016	7.97	2.000	0.003

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

258

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: AT COUNTY ROAD 1  
 STATION TYPE: RIVER

STATION ID: 08-0123-039-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 18 02.73 LONG: 081 16 50.90 U T M: 17 0477600.0 4905100.0 4 REGION: 01 DISTANCE: 39.589

*INTERIM TEST-NAME:		FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	UG/L PHENOL	MG/L AS P	MG/L AS P
MAXIMUM		24.0	0.055	0.025	4.230	0.810	0.016	8.34	2.000	0.020	0.051	
ARITH MEAN		9.0	0.025	0.008	1.680	0.577	0.016	8.15	1.143	0.007	0.025	
GEOM MEAN		4.9		0.007	1.316	0.567		8.15		0.004	0.023	
MINIMUM		1.0	0.010	0.002	0.330	0.370	0.016	7.97	1.000	0.001	0.016	
STD DEV (GEOM *)		8.3		0.006	1.107	0.111		0.11		0.006	0.011	
# SAMP IN STATISTICS		12	11	12	12	12	1	12	7	12	12	
% SAMP (EXCLUDED)			8				91		41			

*INTERIM TEST-NAME:		PSAMF PSEUDONN AERUG.	RSP	TURB	ZNUT	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	MF CNT /100ML	RESIDUE PARTIC. MG/L	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830117	1030	32503	4<	1.0	2.80	0.1800
830221	1020	32520	4	19.2	15.40	0.0100<
830321	1035	32539	4<	6.8	5.00	0.0100<
830418	0950	32556	4<	5.4	4.20	0.0200
830516	1010	32573	4<	4.1	4.90	0.0100<
830620	1045	32590	4<	8.4	7.70	0.0100<
830718	1055	32607	4<	10.1	9.70	0.0100<
830829	1030	32624		7.2	5.20	0.0100<
830919	1030	32641		6.0	3.50	0.002
831017	1030	32658		6.6	5.80	0.003
831121	1020	32675		4.1	4.10	0.002
831219	1055	32692	4<	3.9	2.50	0.002
MAXIMUM		4		19.2	15.40	0.1800
ARITH MEAN		4		6.9	5.90	0.035
GEOM MEAN				5.7	5.16	
MINIMUM		4		1.0	2.50	0.002
STD DEV (GEOM *)				4.5	3.61	
# SAMP IN STATISTICS		1		12	12	6
% SAMP (EXCLUDED)		87				50

## 1983 WATER QUALITY DATA REGION 1

259

B.O.W./ SITE: PEARL CREEK  
 SAMPLE POINT: AT CONCESSION ROAD 12 AND 13 BRANT TWP.  
 STATION TYPE: RIVER

STATION ID: 08-0123-042-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 14 42.56 LONG: 081 10 15.44 U T M: 17 0486350.0 4898900.0 4 REGION: 01 DISTANCE: 56.165

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NNO2FR	
						FECAL	FECAL			NH3-N		
						COLIFORM	STREPCUS			TOTAL		
SAMPLE DATE	TIME	SAMPLE NUMBER	DEPTH	PROJECT SUB-PROJ	CHLORIDE UNF. REAC	CONDUCT. 25C	MF	MF	WATER TEMP	FIL. REAC	FIL. REAC	
YYMMDD	LMT		M	CODE	MG/L	UMHO/CM	CNT	CNT	DEG.C	MG/L	MG/L	
					AS CL-	AT 25 C	/100ML	/100ML	COND.	AS N	AS N	
830117	1245	32507	0.30	0101	9.500	585.0	72	84	6	1.0	0.015	0.006
830221	1245	32524	0.30	0101	8.000	440.0	404	324	3	2.0	0.055	0.082
830321	1245	32543	0.30	0101	9.500	540.0	40AID	70AID	6	1.0	0.040	0.007
830418	1135	32560	0.30	0101	9.500	550.0	24	24			0.030	0.006
830516	1230	32577	0.30	0101	7.000	565.0	60	8	6	10.0	0.050	0.024
830620	1255	32594	0.30	0101	6.000	520.0	4	4<	6	23.0	0.030	0.024
830718	1320	32611	0.30	0101	6.000	505.0	60	84	6	26.0	0.050	0.022
830829	1235	32628	0.30	0101	8.500	540.0			6	26.0	0.050	0.038
830919	1245	32645	0.30	0101	11.000	580.0			6	17.0	0.060	0.033
831017	1245	32662	0.30	0101	13.000	645.0			6	10.0	0.010	0.009
831121	1200	32679	0.30	0101	13.500	590.0			6	6.0	0.015	0.012
831219	1300	32696	0.30	0101	13.000	595.0	92	180	6	1.0	0.015	0.008
MAXIMUM		0.30			13.500	645.0	404	324		26.0	0.060	0.082
ARITH MEAN		0.30			9.542	554.6	94	111		11.2	0.035	0.023
GEOM MEAN					9.202	552.2	50			5.9	0.030	0.016
MINIMUM		0.30			6.000	440.0	4	8		1.0	0.010	0.006
STD DEV (GEOM *)					2.641	52.2	4*			10.2	0.018	0.022
# SAMP IN STATISTICS		12			12	12	8	7		11	12	12
% SAMP (EXCLUDED)								12				

*INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
			K'DAHL N				PSEUDOWN	
			TOTAL				AERUG.	
SAMPLE DATE	TIME	SAMPLE NUMBER	FIL. REAC	UNF. REAC	PO4	PHOSPHOR	MF	RESIDUE
YYMMDD	LMT		MG/L	MG/L	MG/L	MG/L	CNT	PARTIC.
			AS N	AS N	AS P	AS P	/100ML	MG/L
830117	1245	32507	2.390	0.450	7.96	0.010	0.035	4<
830221	1245	32524	1.570	0.760	7.90	0.048	0.104	4
830321	1245	32543	1.610	0.630	8.14	0.070	0.103	4<
830418	1135	32560	1.850	0.480	8.24	0.001	0.026	4<
830516	1230	32577	1.710	0.600	8.29	0.003	0.035	4<
830620	1255	32594	0.890	0.360	8.45	0.005	0.030	4<
830718	1320	32611	0.380	0.450	8.25	0.025	0.034	4<
830829	1235	32628	0.740	0.480	8.17	0.014	0.046	
830919	1245	32645	1.640	0.670	8.10	0.028	0.069	
831017	1245	32662	2.500	0.670	8.18	0.015	0.039	
831121	1200	32679	3.100	0.620	8.10	0.026	0.061	
831219	1300	32696	3.640	0.570	7.91	0.015	0.031	4<

(CONTD)

## 260

STATION ID: 08-0123-042-02

STORET CODE: 02  
002  
1260

LAT: 44 14 42.56 LONG: 081 10 15.44 U T M: 17 0486350.0 4898900.0 4 REGION: 01 DISTANCE: 56.165

* = INTERIM		TEST-NAME:	NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
			N03-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN	
SAMPLE			FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE
DATE	HOURL	SAMPLE	MG/L	MG/L		MG/L	MG/L	CNT	PARTIC.
YYMMDD	LMT	NUMBER	AS N	AS N	PH	AS P	AS P	/100ML	MG/L
		MAXIMUM	3.640	0.760	8.45	0.070	0.104	4	36.4
		ARITH MEAN	1.835	0.562	8.14	0.022	0.051	4	15.0
		GEOM MEAN	1.568	0.550	8.14	0.013	0.046		13.7
		MINIMUM	0.380	0.360	7.90	0.001	0.026	4	7.7
		STD DEV (GEOM *)	0.953	0.117	0.16	0.020	0.028		7.8
# SAMP IN STATISTICS			12	12	12	12	12	1	12
% SAMP (EXCLUDED)								87	

## 1983 WATER QUALITY DATA REGION 1

261

B.O.W./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT CONC. ROAD 4 AND 5 SAUGEEN TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 08-0123-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 21 59.01 LONG: 081 18 51.76

U T M: 17 0474950.0 4912400.0 4

REGION: 01

DISTANCE: 27.358

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL
					TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	COLIFORM	STREPCUS
					MG/L	MG/L	UMHO/CH	MG/L	MG/L	MF	MF
					AS O	AS CL-	AT 25 C	AS CU	AS O	CNT	CNT
					AS CAC03					/100ML	/100ML
SAMPLE	DATE	TIME	SAMPLE	PROJECT	TOTAL						
YYMMDD	HOUR		NUMBER	SUB-PROJ	MG/L						
	LMT			CODE	AS						
830117	1050		32504	0101	239.0	1.07	9.000	540.0	0.0100<	36	36
830221	1055		32521	0101	203.0	0.83	8.500	485.0	0.0100	52	172
830321	1100		32540	0101	231.0	0.66	8.500	515.0	0.0100<	80	16
830418	1010		32557	0101	216.0	0.64	7.500	469.0	0.0100<	20	4<
830516	1050		32574	0101	227.0	0.81	8.000	520.0	0.0100<	4<	4<
830620	1115		32591	0101	216.0	0.30	9.000	515.0	0.0100	4	4<
830718	1140		32608	0101	180.0	0.32	9.500	540.0	0.0100	4	32
830829	1045		32625	0101	191.0	0.43	9.500	540.0	0.0100<		
830919	1045		32642	0101	206.0	0.66	11.500	615.0	0.004		
831017	1050		32659	0101	236.0	0.87	10.000	550.0	0.002		
831121	1045		32676	0101	242.0	1.18	10.500	570.0	0.003		
831219	1115		32693	0101	232.0	1.10	10.500	535.0	0.003	12	44
			MAXIMUM		242.0	1.18	11.500	615.0	0.0100	80	172
			ARITH MEAN		218.2	0.74	9.333	532.8	0.006	30	60
			GEOM MEAN		217.4	0.68	9.268	531.6		11.0	
			MINIMUM		180.0	0.30	7.500	469.0	0.002	4	16
			STD DEV (GEOM *)		19.9	0.29	1.155	37.8		1.1	
			# SAMP IN STATISTICS	12	12	12	12	7	12	7	5
			% SAMP (EXCLUDED)					41		12	37

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
				NH3-N	NO2-N	NO3-N	K'DAHL N	LEAD		P04	PHOSPHOR
				TOTAL	FIL. REAC	FIL. REAC	FIL. REAC	UNF. TOT.		FIL. REAC	UNF. TOT.
				MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
				AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE	DATE	TIME	SAMPLE	STREAM	WATER						
YYMMDD	HOUR		NUMBER	COND.	TEMP						
	LMT				DEG. C						
830117	1050		32504	6	1.0	0.020	0.004	1.760	0.030<	8.09	0.001
830221	1055		32521	3	1.0	0.020	0.043	1.740	0.030	8.22	0.051
830321	1100		32540	6	1.0	0.020	0.006	1.270	0.030<	8.29	0.001
830418	1010		32557	6	3.0	0.020	0.005	1.260	0.030<	8.32	0.001
830516	1050		32574	6	9.0	0.015	0.007	0.950	0.030<	8.41	0.002
830620	1115		32591	6	22.0	0.035	0.008	0.670	0.030<	8.39	0.006
830718	1140		32608	6	25.0	0.020	0.005	0.400	0.030<	8.33	0.014
830829	1045		32625	6	17.0	0.015	0.003	0.360	0.030<	8.43	0.001<
830919	1045		32642	6	17.0	0.035	0.006	0.700	0.003<	8.27	0.002
831017	1050		32659	6	10.5	0.020	0.004	0.980	0.003<	8.34	0.003
831121	1045		32676	6	5.0	0.005	0.005	1.400	0.003<	8.30	0.001
831219	1115		32693	6	1.0	0.010	0.006	1.750	0.003<	8.07	0.002

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

262

B.O.M./ SITE: SAUGEEN RIVER  
 SAMPLE POINT: AT CONC.ROAD 4 AND 5 SAUGEEN TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 08-0123-043-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 21 59.01 LONG: 081 18 51.76 U T M: 17 0474950.0 4912400.0 4 REGION: 01 DISTANCE: 27.358

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC MG/L AS N	NN03FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD MG/L AS PB	PH	PP04FR PO4 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P	
MAXIMUM				25.0	0.035	0.043	1.760	0.570	0.030	8.43	0.014	0.051
ARITH MEAN				9.4	0.020	0.008	1.103	0.430	0.030	8.29	0.004	0.021
GEOM MEAN				5.0	0.018	0.006	0.977	0.425		8.29		0.020
MINIMUM				1.0	0.005	0.003	0.360	0.330	0.030	8.07	0.001	0.012
STD DEV (GEOM *)				8.9	0.009	0.011	0.507	0.070		0.11		0.010
# SAMP IN STATISTICS				12	12	12	12	12	1	12	11	12
% SAMP (EXCLUDED)									91		8	

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER					
830117	1050	32504	4<	3.9	180	370	0.1400
830221	1055	32521	4	27.2	430	1390	0.0100<
830321	1100	32540	4<	15.5	340	770	0.0100<
830418	1010	32557	4<	8.7	150	660	0.0100<
830516	1050	32574	4<	7.0	80C	2840	0.0100<
830620	1115	32591	4<	5.7	44C	9600>	0.0100<
830718	1140	32608	4<	6.8	50C	24000	0.0100<
830829	1045	32625		4.8		4.50	0.0100<
830919	1045	32642		7.4		5.60	0.003
831017	1050	32659		10.6		8.30	0.001
831121	1045	32676		7.5		4.60	0.002
831219	1115	32693	4<	6.7	110	780	0.001
MAXIMUM		4		27.2	430	24000	0.1400
ARITH MEAN		4		9.3	173	4401	0.029
GEOM MEAN				8.0	129		
MINIMUM		4		3.9	44	370	0.001
STD DEV (GEOM *)				6.4	2*	5.40	
# SAMP IN STATISTICS		1		12	8	7	5
% SAMP (EXCLUDED)		87				12	58

## 1983 WATER QUALITY DATA REGION 1

263

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: AT CHEPSTOM  
 STATION TYPE: RIVER

STATION ID: 08-0123-044-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEE RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 09 07.88 LONG: 081 17 10.87 U T M: 17 0477100.0 4888600.0 4 REGION: 01 DISTANCE: 67.591

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR
						FECAL	FECAL			NH3-N	
						COLIFORM	STREPCUS			TOTAL	
SAMPLE DATE	HOUR	SAMPLE	SAMPLE	PROJECT	CHLORIDE	CONDUCT.	HF	HF	WATER	FIL.REAC	FIL.REAC
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	MG/L	25C	CNT	CNT	TEMP	MG/L	MG/L
			M	CODE	AS CL-	AT 25 C	/100ML	/100ML	DEG.C	AS N	AS N
830117	0950	32502	0.30	0101	13.500	518.0	12	132	6	0.010	0.006
830221	0940	32519	0.30	0101	12.500	475.0	36	288	6	0.015	0.013
830321	1000	32538	0.30	0101	13.500	480.0	24	36	6	0.015	0.009
830418	0925	32555	0.30	0101	12.000	456.0	4<	8	6	0.005	0.006
830516	0940	32572	0.30	0101	16.000	525.0	60	12	6	0.035	0.021
830620	1020	32589	0.30	0101	18.000	550.0	24	4<	6	0.055	0.026
830718	1035	32606	0.30	0101	20.500	515.0	80	24	6	0.060	0.033
830829	1000	32623	0.30	0101	20.000	580.0			6	0.040	0.023
830919	1000	32640	0.30	0101	22.500	590.0			6	0.090	0.013
831017	0950	32657	0.30	0101	18.000	590.0			6	0.025	0.009
831121	0950	32674	0.30	0101	16.500	545.0			6	0.005	0.004
831219	1020	32691	0.30	0101	13.500	483.0	12	124	6	0.005	0.007
MAXIMUM		0.30			22.500	590.0	80	288		23.0	0.090
ARITH MEAN		0.30			16.375	525.6	35	89		9.4	0.030
GEOM MEAN					16.045	523.7				4.4	0.019
MINIMUM		0.30			12.000	456.0	12	8		0.1	0.005
STD DEV (GEOM %)					3.465	46.4				8.7	0.027
# SAMP IN STATISTICS		12			12	12	7	7	12	12	12
% SAMP (EXCLUDED)							12	12			

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
			K'DAHL N				PSEUDOMN	
			TOTAL				AERUG.	
SAMPLE DATE	HOUR	SAMPLE	FIL.REAC	UNF.REAC	PO4	PHOSPHOR	HF	RESIDUE
YYMMDD	LMT	NUMBER	MG/L	MG/L	FIL.REAC	UNF.TOT.	CNT	PARTIC.
			AS N	AS N	MG/L	MG/L	/100ML	MG/L
					AS P	AS P		
830117	0950	32502	2.840	0.580	7.85	0.001	0.019	4<
830221	0940	32519	2.690	0.610	7.88	0.011	0.032	4
830321	1000	32538	1.990	0.620	8.12	0.020	0.029	4<
830418	0925	32555	2.000	0.440	8.11	0.001	0.017	4<
830516	0940	32572	2.080	0.660	8.16	0.008	0.029	4<
830620	1020	32589	1.790	0.620	8.33	0.020	0.042	4<
830718	1035	32606	1.380	0.550	8.13	0.022	0.041	4<
830829	1000	32623	1.290	0.590	8.06	0.024	0.045	7.2
830919	1000	32640	1.420	0.580	8.05	0.021	0.040	9.4
831017	0950	32657	1.760	0.790	7.89	0.014	0.032	7.5
831121	0950	32674	1.920	0.670	7.99	0.005	0.025	7.5
831219	1020	32691	2.540	0.690	7.74	0.005	0.020	4<

( C O N T D )



## 1983 WATER QUALITY DATA REGION 1

264

B.O.W./ SITE: TEESWATER RIVER  
 SAMPLE POINT: AT CHEPSTON  
 STATION TYPE: RIVER

STATION ID: 08-0123-044-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 09 07.88 LONG: 081 17 10.87 U T M: 17 0477100.0 4888600.0 4 REGION: 01 DISTANCE: 67.591

*INTERIM TEST-NAME:		NNO3FR	MNTKUR	PH	PPO4FR	PPUT	PSAMF	RSP	
		N03-N	K'DAHL N		P04	PHOSPHOR	PSEUDOMN		
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.		
SAMPLE		MG/L	MG/L		MG/L	MG/L	MF	RESIDUE	
DATE	HR	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.	
YYMMDD	LMT	NUMBER					/100ML	MG/L	
		MAXIMUM	2.840	0.790	8.33	0.024	0.045	4	11.1
		ARITH MEAN	1.975	0.617	8.03	0.013	0.031	4	6.7
		GEOM MEAN	1.917	0.611	8.02	0.008	0.029		6.2
		MINIMUM	1.290	0.440	7.74	0.001	0.017	4	2.3
		STD DEV (GEOM %)	0.505	0.085	0.16	0.009	0.010		2.5
		# SAMP IN STATISTICS	12	12	12	12		1	12
		% SAMP (EXCLUDED)						87	

## 265

STATION ID: 08-0123-045-02

STORET CODE: 02  
002  
1260

LAT: 44 13 50.82 LONG: 081 08 51.90 U T M: 17 0488200.0 4897300.0 4 REGION: 01 DISTANCE: 60.671

*#INTERIM		TEST-NAME:	NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP
			N03-N	K'DAHL N		P04	PHOSPHOR	
SAMPLE			FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	RESIDUE
DATE	HOUR	SAMPLE	MG/L	MG/L		MG/L	MG/L	PARTIC.
YYMMDD	LMT	NUMBER	AS N	AS N	PH	AS P	AS P	MG/L
830117	1305	32508	3.150	0.440	7.97	0.001	0.023	8.0
830221	1300	32525	0.940	0.560	7.95	0.011	0.041	17.7
830321	1305	32544	2.550	0.300	8.18	0.020	0.048	14.0
830418	1150	32561	2.500	0.340	8.24	0.001	0.010	6.0
830516	1150	32578	2.490	0.390	8.21	0.001<	0.013	3.9
830620	1310	32595	1.890	0.380	8.14	0.010	0.076	59.7
830718	1335	32612	1.800	0.480	8.30	0.015	0.021	11.5
830829	1300	32629	0.180	0.330	8.20	0.005	0.030	146.0
830919	1310	32646	2.000	0.640	8.12	0.034	0.059	5.6
831017	1300	32663	3.600	0.490	8.17	0.012	0.021	5.5
831121	1235	32680	3.700	0.420	8.08	0.010	0.024	3.3
831219	1315	32697	4.190	0.470	7.94	0.006	0.016	4.6

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

266

B.O.W./ SITE: PEARL CREEK  
 SAMPLE POINT: AT 10TH CONC BRANT TOWNSHIP  
 STATION TYPE: RIVER

STATION ID: 08-0123-045-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 13 50.82 LONG: 081 08 51.90 U T M: 17 0488200.0 4897300.0 4 REGION: 01 DISTANCE: 60.671

*INTERIM TEST-NAME:		NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP	
		NO3-N	K'DAHL N		PO4	PHOSPHOR		
		FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	RESIDUE	
SAMPLE		MG/L	MG/L		MG/L	MG/L	PARTIC.	
DATE	TIME	AS N	AS N	PH	AS P	AS P	MG/L	
YYMMDD	LMT	NUMBER						
		MAXIMUM	4.190	0.640	8.30	0.034	0.076	146.0
		ARITH MEAN	2.416	0.437	8.12	0.011	0.032	23.8
		GEOM MEAN	1.960	0.427	8.12		0.027	10.7
		MINIMUM	0.180	0.300	7.94	0.001	0.010	3.3
		STD DEV (GEOM *)	1.159	0.099	0.12		0.020	41.5
		# SAMP IN STATISTICS	12	12	12	11	12	12
		% SAMP (EXCLUDED)				8		

## 1983 WATER QUALITY DATA REGION 1

267

B.O.W./ SITE: SOUTH SAUGEE RIVER  
 SAMPLE POINT: AT 7TH.AVE SOUTH OF HANOVER  
 STATION TYPE: RIVER

STATION ID: 08-0123-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEE RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 08 02.72 LONG: 081 01 43.51 U T M: 17 0497700.0 4886550.0 4 REGION: 01 DISTANCE: 96.880

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	FCMF	FSMF	FWSTRC	FWTEMP
SAMPLE	DATE HOUR	SAMPLE	PROJECT	ALK	CHLORIDE	CONDUCT.	COPPER	FECAL	FECAL		
DATE HOUR	YMMDD LMT	NUMBER	SUB-PROJ	TOTAL	UNF.REAC	25C	UNF.TOT.	COLIFORM	STREPCUS	COND.	TEMP
YMMDD LMT			CODE	MG/L	MG/L	UMHO/CM	MG/L	MF	MF		DEG.C
			AS CAC03	AS CL-	AT 25 C	AS CU		/100ML	/100ML		
830117	1430	32512	0101	250.0	8.000	655.0	0.0100	8	8	6	1.0
830221	1425	32529	0101	244.0	9.500	610.0	0.0100	28	152	6	2.0
830321	1500	32548	0101	217.0	8.000	500.0	0.0100<	44	32	6	1.0
830418	1350	32565	0101	216.0	6.500	520.0	0.0100				
830516	1420	32582	0101	225.0	7.000	560.0	0.0100	120	16	6	9.0
830620	1435	32599	0101	221.0	8.500	720.0	0.0100<	24	4<	6	21.0
830718	1450	32616	0101	196.0	9.000	885.0	0.0100	48	8	6	25.0
830829	1430	32633	0101	203.0	9.000	840.0	0.0100<			6	24.0
830919	1425	32650	0101	207.0	9.000	715.0	0.004			6	17.0
831017	1445	32667	0101	240.0	9.000	605.0	0.002			6	11.0
831121	1435	32684	0101	245.0	9.000	590.0	0.002			6	5.0
831219	1440	32701	0101	245.0	9.500	630.0	0.002	8	32	6	1.0
		MAXIMUM	0.30	250.0	9.500	885.0	0.0100	120	152		25.0
		ARITH MEAN	0.30	225.7	8.500	652.5	0.007	40	41		10.6
		GEOM MEAN		225.0	8.447	643.1		27			5.7
		MINIMUM	0.30	196.0	6.500	500.0	0.002	8	8		1.0
		STD DEV (GEOM *)		18.6	0.953	118.9		3*			9.6
		* SAMP IN STATISTICS	12	12	12	12	9	7	6		11
		% SAMP (EXCLUDED)					25		14		

*=INTERIM	TEST-NAME:	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PHNOL	PP04FR	PPUT	RSP
SAMPLE	DATE HOUR	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	LEAD	PHENOLS	FIL.REAC	PHOSPHOR	RESIDUE
DATE HOUR	YMMDD LMT	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UNF-REAC	MG/L	UNF.TOT.	PARTIC.
YMMDD LMT		AS N	AS N	AS N	AS N	AS PB	PH	UG/L	AS P	AS P	MG/L
830117	1430	0.010	0.003	1.950	0.440	0.030<	8.13	1.000<	0.002	0.012	5.6
830221	1425	0.010	0.006	1.640	0.460	0.030<	8.25		0.001	0.021	16.6
830321	1500	0.015	0.005	1.340	0.530	0.030<	8.27	1.500	0.003	0.027	10.5
830418	1350	0.005	0.003	1.390	0.460	0.030<	8.29	1.000<	0.001	0.011	5.3
830516	1420	0.015	0.007	1.150	0.580	0.030<	8.29	1.000<	0.001	0.027	10.6
830620	1435	0.020	0.007	0.910	0.470	0.030<	8.30	1.000	0.001	0.011	4.2
830718	1450	0.045	0.006	0.490	0.410	0.030<	8.19	1.000<	0.005	0.009	2.5
830829	1430	0.025	0.003	0.400	0.330	0.030<	8.24	1.000<	0.001<	0.018	3.6
830919	1425	0.025	0.003	0.630	0.320	0.003<	8.26	1.000<	0.002	0.013	4.2
831017	1445	0.005	0.003	1.040	0.680	0.003<	8.27	1.000	0.001	0.016	8.3
831121	1435	0.005	0.004	1.630	0.470	0.003<	8.22	1.000<	0.001<	0.030	24.3
831219	1440	0.005	0.004	1.800	0.570	0.003<	8.12	1.500	0.001	0.014	8.0

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

268

B.O.W./ SITE: SOUTH SAUGEEN RIVER  
 SAMPLE POINT: AT 7TH.AVE SOUTH OF HANOVER  
 STATION TYPE: RIVER

STATION ID: 08-0123-046-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUGEEN RIVER

STORET CODE: 02  
 002  
 1260

LAT: 44 08 02.72 LONG: 081 01 43.51 U T M: 17 0497700.0 4886550.0 4 REGION: 01 DISTANCE: 96.880

*INTERIM TEST-NAME:		NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH PH	PHNOL PHENOLS UNF-REAC	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.
SAMPLE DATE	HR HOUR	SAMPLE NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	MG/L PH	MG/L AS P	MG/L AS P	MG/L MG/L
YYMMDD	LMT										
		MAXIMUM	0.045	0.007	1.950	0.680		8.30	1.500	0.005	24.3
		ARITH MEAN	0.015	0.004	1.197	0.477		8.24	1.250	0.002	8.6
		GEOM MEAN	0.012	0.004	1.074	0.466		8.24			7.0
		MINIMUM	0.005	0.003	0.400	0.320		8.12	1.000	0.001	2.5
		STD DEV (GEOM *)	0.012	0.002	0.517	0.103		0.06			6.3
		# SAMP IN STATISTICS	12	12	12	12		12	4	10	12
		% SAMP (EXCLUDED)							63	16	

*INTERIM TEST-NAME:		TURB	ZNUT ZINC UNF.TOT.
SAMPLE DATE	HR HOUR	SAMPLE NUMBER	FTU MG/L AS ZN
YYMMDD	LMT		
830117	1430	32512	3.00 0.0100
830221	1425	32529	9.30 0.0100<
830321	1500	32548	5.40 0.0100<
830418	1350	32565	2.10 0.0100
830516	1420	32582	8.50 0.0100<
830620	1435	32599	3.70 0.0100<
830718	1450	32616	3.40 0.0100<
830829	1430	32633	3.30 0.0100<
830919	1425	32650	3.90 0.001 <
831017	1445	32667	5.30 0.002
831121	1435	32684	14.40 0.002
831219	1440	32701	3.40 0.001
		MAXIMUM	14.40 0.0100
		ARITH MEAN	5.47 0.005
		GEOM MEAN	4.69
		MINIMUM	2.10 0.001
		STD DEV (GEOM *)	3.57
		# SAMP IN STATISTICS	12 5
		% SAMP (EXCLUDED)	58

## 1983 WATER QUALITY DATA REGION 1

269

B.O.W./ SITE: SAUBLE RIVER  
 SAMPLE POINT: AT BRIDGE FIRST CONCESSION NORTH OF TARA  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FA101

STATION ID: 08-0135-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 28 46.08 LONG: 081 09 57.75 U T M: 17 0486795.0 4924925.0 4 REGION: 01 DISTANCE: 44.899

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COD	COND25	CUUT	DO	FCMF
					BOD						FECAL
					5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	COPPER	DISSOLVED	COLIFORM
					TOT. DEM.	UNF. REAC	DEMAND	25C	UNF. TOT.	OXYGEN	MF
					MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT
					AS O	AS CL-	AS O	AT 25 C	AS CU	AS O	/100ML
SAMPLE	DATE	NUMBER	DEPTH	PROJECT	TOTAL						
YYMMDD	HMT		M	SUB-PROJ	MG/L						
				CODE	AS CAC03						
830125	1350	36214	0.30	0101	285.0	0.82	8.500	12	570.0	0.0100	44
830328	1625	36239	0.30	0101	273.0	0.82	8.500	10	530.0	0.0100	112
830427	1240	36254	0.30	0101	269.0	2.02	8.500	9	540.0	0.0100	4
830526	1234	36269	0.30	0101	277.0	1.35	7.000	14	530.0	0.0100<	148
830628	1220	36284	0.30	0101	247.0	1.47	8.500	19	485.0	0.0100<	48
830726	1210	36299	0.30	0101	228.0	1.08	9.000	5	450.0	0.0100<	36
830823	1225	36314	0.30	0101	220.0	0.92	10.500	9	450.0	0.0100	60
831003	1335	36315	0.30	0101	236.0	0.67	12.000		565.0	0.002	10.8
831024	1305	36329	0.30	0101	268.0	1.41	13.500		590.0	0.010	
831129	1130	36358	0.30	0101	269.0	0.51	12.000		585.0	0.008	12.0
MAXIMUM			0.30		285.0	2.02	13.500	19	590.0	0.010	148
ARITH MEAN			0.30		257.2	1.11	9.800	11	529.5	0.009	65
GEOM MEAN					256.3	1.03	9.609	10	527.1		44
MINIMUM			0.30		220.0	0.51	7.000	5	450.0	0.002	4
STD DEV (GEOM *)					22.6	0.46	2.084	4	52.0		3*
# SAMP IN STATISTICS			10		10	10	10	7	10	7	7
% SAMP (EXCLUDED)									30		
*INTERIM TEST-NAME:		FEUT	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH
			FECAL			NH3-N			K'DAHL N		
			STREPCUS			TOTAL			TOTAL		
			MF						UNF. REAC		
			CNT						MG/L		
			/100ML						AS N		
SAMPLE	DATE	NUMBER	UNF. TOT.	STREAM	WATER	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.	PH
YYMMDD	HMT		MG/L	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	
			AS FE		DEG. C	AS N	AS N	AS N	AS N	AS PB	
830125	1350	36214		288	4	1.0	0.020	0.008	2.100	0.400	7.87
830328	1625	36239		272	6	2.0	0.045	0.016	1.340	0.500	8.13
830427	1240	36254		104	6	14.0	0.030	0.012	1.210	0.030<	8.20
830526	1234	36269		192	6	15.0	0.015	0.012	0.810	0.520	8.19
830628	1220	36284		40	6	19.5	0.155	0.031	0.400	0.720	8.10
830726	1210	36299		8	6	23.0	0.040	0.012	0.070	0.640	8.30
830823	1225	36314	0.2000	140	8	22.0	0.050	0.005	0.040	0.470	8.07
831003	1335	36315			6	19.0	0.035	0.018	0.840	0.560	8.29
831024	1305	36329			6	9.0	0.025	0.014	1.300	0.830	8.06
831129	1130	36358			6	2.5	0.035	0.006	1.610	0.560	8.05

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

270

B.O.W./ SITE: SAUBLE RIVER  
 SAMPLE POINT: AT BRIDGE FIRST CONCESSION NORTH OF TARA  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FA101

STATION ID: 08-0135-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 28 46.08 LONG: 081 09 57.75 U T M: 17 0486795.0 4924925.0 4 REGION: 01 DISTANCE: 44.899

*INTERIM TEST-NAME:		FEUT	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH
SAMPLE DATE	UNF.TOT. MG/L	IRON MG/L	MF CNT	STREAM COND.	WATER TEMP DEG.C	AS N	AS N	AS N	AS N	LEAD UNF.TOT. MG/L	PH
YYMMDD LMT	SAMPLE NUMBER	AS FE	/100ML							AS PB	
	MAXIMUM	0.2000	288		23.0	0.155	0.031	2.100	0.830		8.30
	ARITH MEAN	0.2000	149		12.7	0.045	0.013	0.972	0.578		8.13
	GEOM MEAN		95		8.4	0.036	0.012	0.594	0.565		8.13
	MINIMUM	0.2000	8		1.0	0.015	0.005	0.040	0.400		7.87
	STD DEV (GEOM *)		4*		8.5	0.040	0.007	0.669	0.133		0.13
	# SAMP IN STATISTICS	1	7		10	10	10	10	9		10
	% SAMP (EXCLUDED)										

*INTERIM TEST-NAME:		PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB	ZNUT	
SAMPLE DATE	FIL.REAC MG/L	PHOSPHOR UNF.TOT. MG/L	MF CNT	RESIDUE PARTIC. MG/L	MF CNT	BCKGRD CNT	TURB'ITY FTU	UNF.TOT. MG/L	ZINC AS ZN	
YYMMDD LMT	SAMPLE NUMBER	AS P	AS P	/100ML		/100ML	/100ML			
830125	1350	36214	0.012	0.024	4<	0.10<	430	690	2.30	0.0100
830328	1625	36239	0.034	0.051	4<	5.9	530C	7500	5.90	0.0100<
830427	1240	36254	0.010	0.045	4<	4.5			3.70	0.0100<
830526	1234	36269	0.009	0.030	4<	2.0	560C	3900	3.10	0.0100<
830628	1220	36284	0.024	0.048	4<	4.2	80AID	24000>	2.00	0.0100<
830726	1210	36299	0.007	0.034	4<	2.0	130C	24000>	1.68	0.0100
830823	1225	36314	0.016	0.038	4	12.8	2300C	100000	6.50	0.0100<
831003	1335	36315	0.010	0.026		4.4			1.60	0.007
831024	1305	36329	0.009	0.025		2.8			2.20	0.007
831129	1130	36358	0.017	0.031		2.6			3.80	0.002
	MAXIMUM	0.034	0.051	4	12.8	2300	100000	6.50	0.0100	
	ARITH MEAN	0.015	0.035	4	4.6	672	28022	3.28	0.007	
	GEOM MEAN	0.013	0.034			381		2.92		
	MINIMUM	0.007	0.024	4	2.0	80	690	1.60	0.002	
	STD DEV (GEOM *)	0.008	0.010			3*		1.73		
	# SAMP IN STATISTICS	10	10	1	9	6	4	10	5	
	% SAMP (EXCLUDED)			85	10		33		50	

## 1983 WATER QUALITY DATA REGION 1

271

B.O.W./ SITE: SAUBLE RIVER  
 SAMPLE POINT: AT SAUBLE FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02FA001

STATION ID: 08-0135-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 40 36.06 LONG: 081 15 19.99 U T M: 17 0479745.0 4946850.0 4 REGION: 01 DISTANCE: 3.219

*=INTERIM	TEST-NAME:	FNSADP	FGPROJ	ALKT	CLIDUR	COND25	CUUT	FCMF FECAL COLIFORM	FEUT	FSMF FECAL STREPCUS	FWFLOW
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	STREPCUS HF CNT /100ML	STREAM FLOW M3 /S
830125	1305	36213	0.30	0101	240.0	6.000	469.0	0.0100	4<	0.2200	24
830328	1600	36238	0.30	0101	216.0	6.000	414.0	0.0100	4<	0.0500	4<
830427	1205	36253	0.30	0101	207.0	5.500	405.0	0.0100<	4<	0.1000	4<
830526	1209	36268	0.30	0101	204.0	4.000	389.0	0.0100<	72	0.1200	40
830628	1145	36283	0.30	0101	195.0	4.500	370.0	0.0100<	4	0.2100	4
830726	1130	36298	0.30	0101	170.0	4.500	327.0	0.1800	4<	0.1500	4<
830823	1135	36313	0.30	0101	191.0	6.000	363.0	0.3100	8	0.5300	4
831003	1415	36316	0.30	0101	197.0	10.000	455.0	0.001		0.120	
831024	1335	36330	0.30	0101	202.0	8.500	422.0	0.007		0.110	
831129	1035	36357	0.30	0101	208.0	8.000	445.0	0.086		0.074	
MAXIMUM			0.30		240.0	10.000	469.0	0.3100	72	0.5300	40
ARITH MEAN			0.30		203.0	6.300	405.9	0.086	28	0.168	18
GEOM MEAN					202.3	6.048	403.6			0.136	
MINIMUM			0.30		170.0	4.000	327.0	0.001	4	0.0500	4
STD DEV (GEOM *)					18.0	1.947	44.6			0.138	
# SAMP IN STATISTICS			10		10	10	10	7	3	10	10
% SAMP (EXCLUDED)								30	57		42

*=INTERIM	TEST-NAME:	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR	NNO3FR	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL	PP04FR
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHENOLS UNF-REAC UG/L PHENOL	P04 FIL.REAC MG/L AS P
830125	1305	36213	6	1.0	0.015	0.003	0.690	0.360	0.030<	7.98	1.000<
830328	1600	36238	6	2.0	0.020	0.002	0.360	0.340	0.030<	8.18	0.001
830427	1205	36253	6	12.5	0.030	0.002	0.230	0.350	0.030<	8.25	0.005
830526	1209	36268	6	14.0	0.020	0.003	0.180	0.430	0.030<	8.21	0.001
830628	1145	36283	6	20.0	0.040	0.013	0.090	0.520	0.030<	8.08	0.004
830726	1130	36298	6	23.0	0.010	0.001	0.010<	0.520	0.030<	8.25	0.006
830823	1135	36313	6	22.0	0.025	0.001	0.020	0.460	0.030<	8.20	0.001
831003	1415	36316	6	17.0	0.030	0.020	1.520	0.660	0.003<	8.06	0.004
831024	1335	36330	6	9.0	0.020	0.003	0.460	0.960	0.003<	8.10	0.001
831129	1035	36357	6	3.0	0.015	0.002	0.620	0.490	0.003<	8.11	0.005

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

272

B.O.W./ SITE: SAUBLE RIVER  
 SAMPLE POINT: AT SAUBLE FALLS  
 STATION TYPE: RIVER FLOW GAUGE FED 02FA001

STATION ID: 08-0135-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 40 36.06 LONG: 081 15 19.99 U T M: 17 0479745.0 4946850.0 4 REGION: 01 DISTANCE: 3.219

*INTERIM TEST-NAME:		FNSTRC	FNTMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC	PP04FR P04 FIL.REAC
SAMPLE DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	MG/L AS P
YYMMDD	LMT										
MAXIMUM				23.0	0.040	0.020	1.520	0.960		8.25	0.006
ARITH MEAN				12.3	0.022	0.005	0.463	0.509		8.14	0.003
GEOM MEAN				8.3	0.021	0.003		0.484		8.14	0.002
MINIMUM				1.0	0.010	0.001	0.020	0.340		7.98	0.001
STD DEV (GEOM *)				8.3	0.009	0.006		0.186		0.09	0.002
# SAMP IN STATISTICS				10	10	10	9	10		10	10
% SAMP (EXCLUDED)							10			66	

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TURB	ZNUT
SAMPLE DATE	HOUR	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
YYMMDD	LMT					
830125	1305	36213	0.007	4<	0.10<	1.61
830328	1600	36238	0.025	4<	1.1	1.89
830427	1205	36253	0.012	4<	1.3	1.33
830526	1209	36268	0.024	4<	2.8	1.53
830628	1145	36283	0.024	4<	4.9	2.20
830726	1130	36298	0.011	4<	1.9	2.50
830823	1135	36313	0.017	4<	0.5	2.30
831003	1415	36316	0.016		3.9	1.20
831024	1335	36330	0.015		2.3	2.20
831129	1035	36357	0.016		3.5	2.20
MAXIMUM			0.025	4.9	2.50	0.0100
ARITH MEAN			0.017	2.5	1.90	0.005
GEOM MEAN			0.016		1.84	
MINIMUM			0.007	0.5	1.20	0.002
STD DEV (GEOM *)			0.006		0.45	
# SAMP IN STATISTICS			10	9	10	4
% SAMP (EXCLUDED)				10		60

## 1983 WATER QUALITY DATA REGION 1

273

B.O.W./ SITE: ALBEMARBLE BROOK  
 SAMPLE POINT: AT HIGHWAY NO 6 NEAR MAR MOE SW A3  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FA102

STATION ID: 08-0135-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 50 03.49 LONG: 081 13 07.91

U T M: 17 0482700.0 4964350.0 4

REGION: 01

DISTANCE: 25.105

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	CLIDUR	COND25	CUUT	FCMF FECAL COLIFORM	FEUT	FSMF FECAL STREPCUS
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ARSENIC UNF.TOT. MG/L AS AS	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU	IRON UNF.TOT. MG/L AS FE	STREPCUS MF CNT /100ML
830125	1130	36212	0.30	0101	218.0		3.500	416.0	0.0100	4<	4<
830328	1507	36237	0.30	0101	209.0		2.500	385.0	0.0100	4	4<
830427	1050	36252	0.30	0101	199.0		2.000	371.0		20	4<
830526	1126	36267	0.30	0101	190.0		1.500	351.0	0.0100<	16	4<
830628	1045	36282	0.30	0101	214.0		1.500	384.0	0.0100<	600>	116
830726	1105	36297	0.30	0101	239.0		2.500	428.0	0.0100<	150	224
830823	1110	36312	0.30	0101	273.0		2.500	470.0	0.0100	48	48
831003	1440	36317	0.30	0101	213.0	0.001<	4.000	422.0	0.002	0.180	
831024	1405	36331	0.30	0101	223.0		5.000	427.0	0.001		
831129	1010	36356	0.30	0101	207.0		5.000	398.0	0.005	0.069	
		MAXIMUM	0.30		273.0		5.000	470.0	0.0100	150	224
		ARITH MEAN	0.30		218.5		3.000	405.2	0.006	48	129
		GEOM MEAN			217.5		2.749	403.9			0.155
		MINIMUM	0.30		190.0		1.500	351.0	0.001	4	48
		STD DEV (GEOM *)			23.3		1.312	34.3			0.239
		# SAMP IN STATISTICS	10		10		10	10	6	5	3
		% SAMP (EXCLUDED)							33	28	57
*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PHNOL
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PHENOLS UNF-REAC UG/L PHENOL
830125	1130	36212	4	1.0	0.020<	0.015	0.004	0.250	0.250	0.030<	1.000<
830328	1507	36237	6	2.0	0.020<	0.010	0.001	0.030	0.230	0.030<	8.08
830427	1050	36252	6	13.0	0.020<	0.005	0.001<	0.010<	0.280	0.030<	8.20
830526	1126	36267	6	13.5	0.020<	0.005<	0.001	0.010<	0.240	0.030<	8.14
830628	1045	36282	6	17.5	0.020<	0.015	0.007	0.030	0.600	0.030<	8.05
830726	1105	36297	6	22.0	0.020<	0.030	0.002	0.010<	0.700	0.030<	7.98
830823	1110	36312	6	22.0	0.020	0.010	0.001	0.010<	0.840	0.030<	8.18
831003	1440	36317	6	18.0	0.002<	0.010	0.001	0.010<	0.490	0.003<	8.01
831024	1405	36331	6	10.0		0.005<	0.001	0.010<	0.560	0.001<	8.00
831129	1010	36356	6	3.0	0.001<	0.005<	0.001	0.110	0.270	0.003<	1.000<

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

274

B.O.W./ SITE: ALBEMARBLE BROOK  
 SAMPLE POINT: AT HIGHWAY NO 6 NEAR MAR MOE SW A3  
 STATION TYPE: RIVER FLOW GAUGE MOE 02FA102

STATION ID: 08-0135-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: SAUBLE RIVER

STORET CODE: 02  
 002  
 1410

LAT: 44 50 03.49 LONG: 081 13 07.91

U T M: 17 0482700.0 4964350.0 4

REGION: 01

DISTANCE: 25.105

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NIUT	NH4FR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	
SAMPLE DATE	HOUR YMMDD LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	NICKEL UNF.TOT. MG/L AS NI	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	AS PB	PH	PHENOL
MAXIMUM				22.0	0.020	0.030	0.007	0.250	0.840		8.20	2.000
ARITH MEAN				12.2	0.020	0.014	0.002	0.105	0.446		8.05	2.000
GEOM MEAN				8.3					0.399		8.05	
MINIMUM				1.0	0.020	0.005	0.001	0.030	0.230		7.86	2.000
STD DEV (GEOM *)				8.0					0.222		0.10	
# SAMP IN STATISTICS				10	1	7	9	4	10		10	1
% SAMP (EXCLUDED)					88	30	10	60				66

*INTERIM TEST-NAME:		PP04FR	PPUT	PSAMF PSEUDOMN AERUG. HF CNT /100ML	RSP RESIDUE PARTIC. MG/L	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE	HOUR YMMDD LMT	SAMPLE NUMBER	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P			
830125	1130	36212	0.002	0.004	4<	0.10<	0.90
830328	1507	36237	0.003	0.015	4<	0.7	1.41
830427	1050	36252	0.001<	0.012	4<	1.6	1.08
830526	1126	36267	0.001	0.010	4<	1.8	1.16
830628	1045	36282	0.016	0.032	4<	5.4	2.50
830726	1105	36297	0.024	0.032	4<	4.4	2.70
830823	1110	36312	0.005	0.067	4<	15.8	7.10
831003	1440	36317	0.004	0.021		7.1	1.10
831024	1405	36331	0.001	0.009		0.1 <	0.60
831129	1010	36356	0.004	0.008		1.3	0.62
MAXIMUM			0.024	0.067		15.8	7.10
ARITH MEAN			0.007	0.022		4.8	1.92
GEOM MEAN				0.016			1.41
MINIMUM			0.001	0.004		0.7	0.60
STD DEV (GEOM *)				0.018			1.96
# SAMP IN STATISTICS			9	10		8	3
% SAMP (EXCLUDED)			10			20	70

## 1983 WATER QUALITY DATA REGION 1

275

B.O.W./ SITE: STOKES RIVER  
 SAMPLE POINT: 2ND.BRIDGE UPSTR.FROM MOUTH STOKES BAY  
 STATION TYPE: RIVER

STATION ID: 08-0143-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: STOKES RIVER

STORET CODE: 02  
 002  
 1530

LAT: 45 00 09.78 LONG: 081 21 56.65 U T M: 17 0471175.0 4983100.0 4 REGION: 01 DISTANCE: 1.127

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830125	1040	36210	0.30	0101	6.000	373.0	76	372	6	1.0	0.045	0.007
830328	1430	36235	0.30	0101	3.500	331.0	12	8	6	2.0	0.020	0.003
830427	1020	36250	0.30	0101	2.500	264.0	4	4<	6	14.0	0.045	0.029
830526	1050	36265	0.30	0101	3.500	310.0	320	152	6	16.5	0.010	0.003
830628	1005	36280	0.30	0101	1.500	340.0	236	152	6	18.0	0.085	0.074
830726	1025	36295	0.30	0101	3.000	520.0	12	28	6	19.5	0.150	0.009
830823	1040	36310	0.30	0101	2.500	430.0	20	44	6	20.0	0.120	0.007
831003	1515	36319	0.30	0101	4.500	385.0			6	18.0	0.065	0.010
831024	1450	36333	0.30	0101	6.000	403.0			6	9.0	0.010	0.004
831129	0930	36354	0.30	0101	8.500	324.0			6	2.5	0.035	0.012
MAXIMUM		0.30			8.500	520.0	320	372		20.0	0.150	0.074
ARITH MEAN		0.30			4.150	368.0	97	126		12.0	0.058	0.016
GEOM MEAN					3.695	362.0	35			8.2	0.041	0.009
MINIMUM		0.30			1.500	264.0	4	8		1.0	0.010	0.003
STD DEV (GEOM *)					2.122	72.1	5*			7.7	0.047	0.022
# SAMP IN STATISTICS		10			10	10	7	6		10	10	10
% SAMP (EXCLUDED)								14				

*INTERIM TEST-NAME:		NNO3FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L
830125	1040	36210	0.160	0.550	7.68	0.003	0.023	4< 1.8
830328	1430	36235	0.080	0.390	7.85	0.004	0.018	4< 4.1
830427	1020	36250	0.040	0.580	7.92	0.008	0.048	4< 24.7
830526	1050	36265	0.070	0.600	7.74	0.005	0.033	4< 4.7
830628	1005	36280	0.080	1.100	7.79	0.026	0.100	4< 44.1
830726	1025	36295	0.040	2.150	7.60	0.010	0.155	4< 13.3
830823	1040	36310	0.040	1.280	7.82	0.024	0.098	4< 8.6
831003	1515	36319	0.050	1.100	7.93	0.013	0.106	83.2
831024	1450	36333	0.120	1.310	7.77	0.007	0.043	14.7
831129	0930	36354	0.740	0.890	7.79	0.058	0.129	30.9

( C O N T D )

## 1983 WATER QUALITY DATA REGION 1

276

B.O.W./ SITE: STOKES RIVER  
 SAMPLE POINT: 2ND.BRIDGE UPSTR.FROM MOUTH STOKES BAY  
 STATION TYPE: RIVER

STATION ID: 08-0143-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: STOKES RIVER

STORET CODE: 02  
 002  
 1530

LAT: 45 00 09.78 LONG: 081 21 56.65

U T M: 17 0471175.0 4983100.0 4

REGION: 01

DISTANCE: 1.127

*INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN	
		FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	
SAMPLE		MG/L	MG/L		MG/L	MG/L	MF	RESIDUE
DATE HOUR	SAMPLE	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.
YYMMDD LMT	NUMBER						/100ML	MG/L
	MAXIMUM	0.740	2.150	7.93	0.058	0.155		83.2
	ARITH MEAN	0.142	0.995	7.79	0.016	0.075		23.0
	GEOM MEAN	0.085	0.884	7.79	0.010	0.060		13.2
	MINIMUM	0.040	0.390	7.60	0.003	0.018		1.8
	STD DEV (GEOM *)	0.214	0.521	0.10	0.017	0.048		25.0
	# SAMP IN STATISTICS	10	10	10	10	10		10
	% SAMP (EXCLUDED)							

## 1983 WATER QUALITY DATA REGION 1

277

B.O.W./ SITE: STOKES RIVER  
 SAMPLE POINT: AT HIGHWAY NO.6  
 STATION TYPE: RIVER FLOW GAUGE FED.02FA002

STATION ID: 08-0143-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: STOKES RIVER

STORET CODE: 02  
 002  
 1530

LAT: 45 02 13.25 LONG: 081 20 10.03 U T M: 17 0473525.0 4986900.0 4 REGION: 01 DIST: 002 DISTANCE: 6.276

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR
						FECAL	FECAL				NH3-N
SAMPLE	DATE	SAMPLE	SAMPLE	PROJECT	CHLORIDE	CONDUCT.	COLIFORM	STREPCUS	STREAM		TOTAL
DATE	HR	NUMBER	DEPTH	SUB-PROJ	UNF.REAC	25C	MF	MF	FLOW	WATER	FIL.REAC
YYMMDD	LMT		M	CODE	MG/L	UMHO/CM	CNT	CNT	N3	TEMP	MG/L
					AS CL-	AT 25 C	/100ML	/100ML	/S	DEG.C	AS N
830125	1105	36211	0.30	0101	4.500	350.0	72	192	1.000	4	0.030
830328	1445	36236	0.30	0101	3.500	312.0	48	8	1.570	6	0.055
830427	1030	36251	0.30	0101	2.000	302.0	36	8	0.664	6	0.020
830526	1110	36266	0.30	0101	2.500	290.0	312	196	3.510	6	0.010
830628	1015	36281	0.30	0101	1.500	332.0	272	204	0.278	6	0.035
830726	1035	36296	0.30	0101	2.000	382.0	600	96	0.042	6	0.020
830823	1050	36311	0.30	0101	3.500	405.0	260	44	0.014	6	0.035
831003	1505	36318	0.30	0101	4.500	368.0			0.408	6	0.025
831024	1435	36332	0.30	0101	5.500	373.0			0.565	6	0.005<
831129	0935	36355	0.30	0101	8.500	329.0			3.190	6	0.020
MAXIMUM		0.30			8.500	405.0	312	204	3.510		0.055
ARITH MEAN		0.30			3.800	344.3	167	107	1.124		0.028
GEOM MEAN					3.342	342.5		57	0.462		8.3
MINIMUM		0.30			1.500	290.0	36	8	0.014		0.010
STD DEV (GEOM *)					2.098	37.6		4*	1.262		7.5
# SAMP IN STATISTICS		10			10	10	6	7	10		9
% SAMP (EXCLUDED)							14				10

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
				K'DAHL N				PSEUDOMN	
		N02-N	N03-N	TOTAL		P04	PHOSPHOR	AERUG.	
SAMPLE	DATE	FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE
DATE	HR	MG/L	MG/L	MG/L	PH	MG/L	MG/L	CNT	PARTIC.
YYMMDD	LMT	AS N	AS N	AS N		AS P	AS P	/100ML	MG/L
830125	1105	0.004	0.130	0.530	7.50	0.004	0.021	4<	10.9
830328	1445	0.005	0.070	0.500	7.81	0.011	0.042	4<	20.0
830427	1030	0.002	0.020	0.410	8.00	0.002	0.022	4<	16.4
830526	1110	0.003	0.150	0.530	7.82	0.005	0.039	4<	15.6
830628	1015	0.011	0.020	0.740	7.88	0.013	0.056	4	22.0
830726	1035	0.003	0.010<	0.940	8.05	0.016	0.054	4<	28.1
830823	1050	0.003	0.010<	0.980	8.23	0.011	0.094	4<	48.4
831003	1505	0.005	0.020	0.900	7.92	0.016	0.062		33.5
831024	1435	0.004	0.110	1.190	7.89	0.003	0.023		2.9
831129	0935	0.007	0.780	0.770	7.80	0.025	0.070		27.4

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

278

B.O.W./ SITE: STOKES RIVER  
 SAMPLE POINT: AT HIGHWAY NO.6  
 STATION TYPE: RIVER FLOW GAUGE FED.02FA002

STATION ID: 08-0143-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE HURON  
 TERM STREAM: STOKES RIVER

STORET CODE: 02  
 002  
 1530

LAT: 45 02 13.25 LONG: 081 20 10.03 U T M: 17 0473525.0 4986900.0 4 REGION: 01 DIST: 002 DISTANCE: 6.276

*=INTERIM	TEST-NAME:	NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO2-N	NO3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOHN	
SAMPLE		FIL.REAC	FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	RESIDUE
DATE	HR	MG/L	MG/L	MG/L		MG/L	MG/L	MG	PARTIC.
YYMMDD	LMT	AS N	AS N	AS N	PH	AS P	AS P	CNT	MG/L
		0.011	0.780	1.190	8.23	0.025	0.094	4	48.4
		0.005	0.162	0.749	7.89	0.011	0.048	4	22.5
		0.004		0.710	7.89	0.008	0.043		18.4
		0.002	0.020	0.410	7.50	0.002	0.021	4	2.9
		0.003		0.254	0.19	0.007	0.024		12.7
		10	8	10	10	10	10	1	10
			20					85	

## 1983 WATER QUALITY DATA REGION 1

279

B.O.W./ SITE: TURKEY CREEK  
 SAMPLE POINT: AT WINDSOR SUBURBAN ROAD 40  
 STATION TYPE: RIVER

STATION ID: 10-0001-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: TURKEY CREEK

STORET CODE: 02  
 003  
 2740

LAT: 42 14 53.82 LONG: 083 04 04.46 U T M: 17 0329400.0 4679200.0 4 REGION: 01 DISTANCE: 3.862

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COD	COND25	CRUT	CUUT	DO	
SAMPLE DATE	HR	SAMPLE	SAMPLE	PROJECT	ALK	5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	CHROMIUM	COPPER	DISOLVED
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	TOTAL	TOT.DEM.	UNF.REAC	DEMAND	25C	UNF.TOT.	UNF.TOT.	OXYGEN
			M	CODE	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L
				AS CAC03	AS O	AS CL-	AS O	AT 25 C	AS CR	AS CU	AS O	
830110	1340	36406	0.30	0101	219.0	9.04	90.500		880.0	0.0200<	0.0100<	5.5
830215	1345	36418	0.30	0101	179.0	31.60	110.000		910.0	0.3000	0.0100	4.0
830315	1330	36422	0.30	0101	255.0	70.00	88.000		1010.0	0.1000	0.0100<	
830419	0810	36431	0.30	0101	207.0	21.50	63.000		795.0	0.0200	0.0100	
830511	1400	36444	0.30	0101	212.0	13.30	68.000		800.0	0.0100	0.0100	6.5
830613	1220	36455	0.30	0101	215.0	91.00	77.500	30	785.0	0.0300	0.0100	
830712	1345	36465	0.30	0101	206.0	18.80	65.000	89	785.0	0.0300	0.0100	
830808	1300	36476	0.30	0101	250.0	4.38	62.500	26	785.0	0.0200<	0.0100<	2.0
830914	1435	36487	0.30	0101	171.0	9.00	44.500		565.0	0.017	0.009	
831012	1330	36498	0.30	0101	120.0	25.90	135.000		845.0	0.0130	0.0070	1.5
831114	1225	36509	0.30	0101	255.0	3.84	71.500		850.0	0.002	0.007	6.5
831213	1315	36520	0.30	0101	193.0	2.50	59.500		710.0	0.006	0.008	9.5
		MAXIMUM	0.30		255.0	91.00	135.000	89	1010.0	0.3000	0.0100	9.5
		ARITH MEAN	0.30		206.8	25.07	77.917	48	810.0	0.053	0.009	5.1
		GEOM MEAN			203.0	14.63	74.702	41	802.8			4.3
		MINIMUM	0.30		120.0	2.50	44.500	26	565.0	0.002	0.0070	1.5
		STD DEV (GEOM #)			38.8	27.80	24.809	35	108.7			2.8
		# SAMP IN STATISTICS	12		12	12	12	3	12	10	9	7
		% SAMP (EXCLUDED)							16	25		

*INTERIM TEST-NAME:		FCMF	FEUT	FSMF	FWSTRC	FWTEMP	NIUT	NNHTFR	NN02FR	NN03FR	NNTKUR	
SAMPLE DATE	HR	FECAL	IRON	FECAL		WATER	NICKEL	TOTAL	FIL.REAC	FIL.REAC	FIL.REAC	
YYMMDD	LMT	CNT	UNF.TOT.	STREPCUS	STREAM	TEMP	UNF.TOT.	MG/L	MG/L	MG/L	UNF.REAC	
		/100ML	MG/L	MG/L	COND.	DEG.C	MG/L	AS N	AS N	AS N	MG/L	
			AS FE	/100ML			AS NI				AS N	
830110	1340	36406	66000	0.4800	490	6 8 9	6.0	0.020	4.050	0.113	1.170	5.300
830215	1345	36418	20000	0.2000	5000	9 6 8	5.0	0.280	2.700	0.002	0.060	6.600
830315	1330	36422	2200000	0.1700	3400	9 6 8	10.0	0.880	0.005<	0.003	0.020	8.000
830419	0810	36431	28000	0.3300	3000	6 8	3.0	0.100	0.340	0.182	4.600	2.300
830511	1400	36444	8000AID	0.3600	1000	6 8	14.5	0.150	0.900	0.320	0.920	2.200
830613	1220	36455	4300000	0.4800	20000	9 0 6	25.0	0.150	0.580	0.007	0.010<	9.500
830712	1345	36465	22000	0.4200	1000<	9 0 7	27.0	0.100	3.300	0.001	0.010<	7.000
830808	1300	36476	11000	0.5100	52	6 8 9	24.0	0.060	4.700	0.101	0.230	5.300
830914	1435	36487				6 8 9	17.0	0.050	6.500	0.055	0.040	
831012	1330	36498				6 8 9	18.0	0.088	2.450	0.002	0.010<	5.300
831114	1225	36509				6 8	6.0	0.015	3.100	0.100	0.950	6.850
831213	1315	36520	26000		3800	6 8	5.0	0.012	0.730	0.049	1.820	1.500

(CONTD)



## 1983 WATER QUALITY DATA REGION 1

280

B.O.W./ SITE: TURKEY CREEK  
 SAMPLE POINT: AT WINDSOR SUBURBAN ROAD 40  
 STATION TYPE: RIVER

STATION ID: 10-0001-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: TURKEY CREEK

STORET CODE: 02  
 003  
 2740

LAT: 42 14 53.82 LONG: 083 04 04.46

U T M: 17 0329400.0 4679200.0 4

REGION: 01

DISTANCE: 3.862

*=INTERIM	TEST-NAME:	FCMF FECAL COLIFORM MF CNT /100ML	FEUT IRON UNF.TOT. MG/L AS FE	FSMF FECAL STREPCUS MF CNT /100ML	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	NIUT NICKEL UNF.TOT. MG/L AS NI	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNO2FR NO2-N FIL.REAC MG/L AS N	NNO3FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	
	MAXIMUM	2200000	0.5100	20000		27.0	0.880	6.500	0.320	4.600	9.500	
	ARITH MEAN	297625	0.3687	4593		13.4	0.159	2.668	0.078	1.090	5.441	
	GEOM MEAN		0.3447			10.6	0.078		0.022		4.741	
	MINIMUM	8000	0.1700	52		3.0	0.012	0.340	0.001	0.020	1.500	
	STD DEV (GEOM *)		0.1292			8.7	0.239		0.096		2.544	
	# SAMP IN STATISTICS	8	8	8		12	12	11	12	9	11	
	% SAMP (EXCLUDED)	11		11				8		25		
*=INTERIM	TEST-NAME:	PBUT LEAD UNF.TOT. MG/L AS PB	PH PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF CNT /100ML	PIPCBT PCB TOTAL NG/L	RSP RESIDUE PARTIC. MG/L	TCMF COLIFORM TOTAL MF CNT /100ML	TCMFBK COLIFORM TOTAL MF BCKGRD CNT /100ML	
830110	1340	36406	0.030<	7.67	6.000	0.960	1.280	300C		8.6	460000C	6400000
830215	1345	36418	0.030<	7.28	16.500	5.400	6.150	132C		18.7	180000C	150E+05
830315	1330	36422	0.030<	7.43	23.000	3.160	4.700	240C		20.8	2200000	240E+05
830419	0810	36431	0.030<	7.38	8.500	0.645	0.970	504		9.1	180000C	7300000
830511	1400	36444	0.030<	7.57		1.760	2.000	244		12.1	310000C	5300000
830613	1220	36455	0.030<	6.88	81.500	1.300	3.400	1500>		30.6	6700000C	280E+05
830712	1345	36465	0.030<	7.37	39.500	3.450	5.250	1000		29.6	230000	1330000
830808	1300	36476	0.030<	7.65	4.500	1.080	1.090	650		6.7	79000AID	460000
830914	1435	36487	0.006	7.70	21.000	1.680	2.050		20<W	10.6		
831012	1330	36498	0.007	7.44	79.000	2.550	2.580			10.4		
831114	1225	36509	0.003<	7.68		0.585	0.755			4.9		
831213	1315	36520	0.004	7.42	3.000	0.181	0.290	96		18.7	100000	240000
	MAXIMUM	0.007	7.70	81.500	5.400	6.150	1000		20	30.6	6700000	280E+05
	ARITH MEAN	0.006	7.46	28.250	1.896	2.543	396		20<A	15.1	1158888	9781111
	GEOM MEAN		7.45	16.386	1.362	1.851				13.0	363077	4151727
	MINIMUM	0.004	6.88	3.000	0.181	0.290	96		20	4.9	70000	240000
	STD DEV (GEOM *)		0.23	29.520	1.505	1.924				8.6	4*	5*
	# SAMP IN STATISTICS	3	12	10	12	12		1	12	9		9
	% SAMP (EXCLUDED)	75					11					

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

281

B.O.W./ SITE: TURKEY CREEK  
 SAMPLE POINT: AT WINDSOR SUBURBAN ROAD 40  
 STATION TYPE: RIVER

STATION ID: 10-0001-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: TURKEY CREEK

STORET CODE: 02  
 003  
 2740

LAT: 42 14 53.82 LONG: 083 04 04.46 U T M: 17 0329400.0 4679200.0 4 REGION: 01 DISTANCE: 3.862

*INTERIM TEST-NAME:		TURB	ZINC
			UNF.TOT.
SAMPLE DATE	TIME	TURB'ITY	MG/L
YYMMDD	LMT	NUMBER	AS ZN
830110	1340	36406	6.00
830215	1345	36418	9.50
830315	1330	36422	10.00
830419	0810	36431	8.30
830511	1400	36444	9.50
830613	1220	36455	33.00
830712	1345	36465	105.00
830808	1300	36476	12.70
830914	1435	36487	9.20
831012	1330	36498	6.50
831114	1225	36509	4.10
831213	1315	36520	41.00
MAXIMUM		105.00	1.0000
ARITH MEAN		21.23	0.229
GEOM MEAN		12.83	0.127
MINIMUM		4.10	0.0300
STD DEV (GEOM *)		28.72	0.280
# SAMP IN STATISTICS		12	12
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 1

282

B.O.W./ SITE: CANARD RIVER  
 SAMPLE POINT: HWY.18 2 MILES SOUTH OF RIVER CANARD  
 STATION TYPE: RIVER

STATION ID: 10-0002-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CANARD RIVER

STORET CODE: 02  
 003  
 2700

LAT: 42 10 06.56 LONG: 083 05 52.32 U T M: 17 0326710.0 4670400.0 4 REGION: 01 DISTANCE: 0.805

*INTERIM TEST-NAME:		FMSADP	F6PROJ	BOD5	CLIDUR	COD	COND25	FCMF	FSMF	FMSTRC	FWTEMP
				BOD				FECAL	FECAL		
				5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	COLIFORM	STREPCUS		
				TOT.DEM.	UNF.REAC	DEMAND	25C	MF	MF		
				MG/L	MG/L	MG/L	UMHO/CM	CNT	CNT		
				AS O	AS CL-	AS O	AT 25 C	/100ML	/100ML		
SAMPLE		SAMPLE	PROJECT								
DATE	HR	DEPTH	SUB-PROJ								
YYMMDD	LMT	NUMBER	CODE								
830110	1400	36407	0101		40.500		422.0	340	140	6 8	2.0
830215	1445	36419	0101		38.000		550.0	10AID	50AID	4	1.0
830315	1400	36423	0101		63.500		765.0	4<	12	6 8	8.0
830419	1100	36432	0101		21.500		444.0	300	630	6 8	3.0
830511	1430	36445	0101		31.500		478.0	10<	50AID	6 8	15.0
830613		36456	0101		59.500		580.0	4			
830712	1410	36466	0101		28.500	17	428.0	12	8	6 8	27.0
830808	1325	36477	0101		16.500	30	355.0	110	30AID	6 8	27.0
830914	1500	36488	0101	9.00	21.000		326.0			6 8	20.0
831012	1400	36499	0101		29.000		364.0			6 8	15.0
831114	1245	36510	0101		38.500		540.0			6 8	2.5
831213	1345	36521	0101		22.000		322.0	2400	4000	6 8	4.0
MAXIMUM		0.30		9.00	63.500	30	765.0	2400	4000		27.0
ARITH MEAN		0.30		9.00	34.167	23	464.5	454	547		11.3
GEOM MEAN					31.502	23	449.8		60		6.9
MINIMUM		0.30		9.00	16.500	17	322.0	4	4		1.0
STD DEV (GEOM *)					14.880	9	128.6		9*		10.0
# SAMP IN STATISTICS		12		1	12	2	12	7	9		11
% SAMP (EXCLUDED)								22			

*INTERIM TEST-NAME:		NNHTFR	NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	RSP	TURB	
		NH3-N			K'DAHL N						
		TOTAL			TOTAL						
		FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC		PO4	PHOSPHOR	RESIDUE		
		MG/L	MG/L	MG/L	MG/L		FIL.REAC	UNF.TOT.	PARTIC.		
		AS N	AS N	AS N	AS N		MG/L	MG/L	MG/L		
SAMPLE											
DATE	HR										
YYMMDD	LMT	NUMBER				PH	AS P	AS P		TURB'ITY	
										FTU	
830110	1400	36407	0.070	0.018	2.000	0.730	8.00	0.040	0.084	14.9	46.00
830215	1445	36419	0.285	0.029	4.570	1.220	7.85	0.091	0.143	11.7	30.00
830315	1400	36423	0.100	0.048	3.650	2.600	8.29	0.005	0.198	103.5	89.00
830419	1100	36432	0.185	0.076	5.400	1.780	8.04	0.133	0.280	80.1	230.00
830511	1430	36445	0.121	0.098	4.450	1.520	7.98	0.048	0.210	45.2	138.00
830613		36456	0.080	0.045	2.000	3.760	8.35	0.011	1.760	66.10	85.00
830712	1410	36466	0.110	0.141	2.600	1.160	8.15	0.036	0.122	30.6	49.00
830808	1325	36477	0.210	0.104	1.610	1.800	7.95	0.064	0.250	59.5	128.00
830914	1500	36488	0.035	0.004	0.010<	0.640	8.48	0.012	0.080	34.8	45.00
831012	1400	36499	0.040	0.004	0.060	0.530	7.97	0.006	0.066	35.6	38.00
831114	1245	36510	0.115	0.049	4.800	2.400	8.04	0.178	0.340	15.4	155.00
831213	1345	36521	0.135	0.060	2.600	1.750	7.56	0.015	0.520	95.1	320.00

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

283

B.O.W./ SITE: CANARD RIVER  
 SAMPLE POINT: HWY.18 2 MILES SOUTH OF RIVER CANARD  
 STATION TYPE: RIVER

STATION ID: 10-0002-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CANARD RIVER

STORET CODE: 02  
 003  
 2700

LAT: 42 10 06.56 LONG: 083 05 52.32 U T M: 17 0326710.0 4670400.0 4 REGION: 01 DISTANCE: 0.805

*INTERIM TEST-NAME:		NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL UNF.REAC	PH	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	RSP RESIDUE PARTIC.	TURB TURB'ITY FTU
DATE	HOUR	SAMPLE NUMBER	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS P	MG/L AS P	MG/L	
YYMMDD	LMT									
		MAXIMUM	0.285	0.141	5.400	3.760	8.48	0.178	1.760	103.5
		ARITH MEAN	0.124	0.056	3.067	1.657	8.05	0.053	0.338	49.4
		GEOM MEAN	0.105	0.037		1.425	8.05	0.030	0.209	39.5
		MINIMUM	0.035	0.004	0.060	0.530	7.56	0.005	0.066	11.7
		STD DEV (GEOM *)	0.073	0.042		0.931	0.24	0.055	0.466	31.5
		# SAMP IN STATISTICS	12	12	11	12	12	12	12	12
		% SAMP (EXCLUDED)			8					

## 1983 WATER QUALITY DATA REGION 1

284

B.O.W./ SITE: CANARD RIVER  
 SAMPLE POINT: 2 MILES SOUTH OF LUKERVILLE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH002

STATION ID: 10-0002-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CANARD RIVER

STORET CODE: 02  
 003  
 2700

LAT: 42 09 32.79 LONG: 083 01 06.23

U T M: 17 0333250.0 4669200.0 4

REGION: 01

DISTANCE: 12.070

*=INTERIM TEST-NAME:			FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
						BOD					FECAL	FECAL
					ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOTAL	TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	MF	MF
					MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
					AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	TIME	SAMPLE	PROJECT								
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ								
			M	CODE								
830110	1410	36408	0.30	0101	155.0	1.74	43.000	660.0	0.0100<	12.0	590	144
830215	1500	36420	0.30	0101	166.0	1.06	155.000	1650.0	0.0100	10.0	100	110
830315	1405	36424	0.30	0101	155.0	3.68	57.000	710.0	0.0100<		40AID	10AID
830419	1115	36433	0.30	0101	116.0	0.96	21.000	445.0	0.0100		1000	40AID
830511	1445	36446	0.30	0101	154.0	3.60	26.500	550.0	0.0100	9.5	130	30AID
830712	1430	36467	0.30	0101	142.0	2.10	81.000	1140.0	0.0100<	6.8	160	180
830808	1340	36478	0.30	0101	172.0	2.28	25.000	472.0	0.0100<	6.5	550	110
830914	1520	36489	0.30	0101	143.0	1.56	330.000	2930.0				
831012	1415	36500	0.30	0101	136.0	1.46	370.000	3300.0	0.0070	8.5		
831114	1300	36511	0.30	0101	94.0	3.52	34.000	445.0	0.011	10.0		
831213	1400	36522	0.30	0101	44.6	2.18	18.000	204.0	0.016	10.5	2400	5500
MAXIMUM			0.30		172.0	3.68	370.000	3300.0	0.016	12.0	2400	5500
ARITH MEAN			0.30		134.3	2.19	105.500	1136.9	0.011	9.2	621	765
GEOM MEAN					127.3	1.99	59.318	802.9		9.0	300	110
MINIMUM			0.30		44.6	0.96	18.000	204.0	0.0070	6.5	40	10
STD DEV (GEOM #)					37.2	1.00	127.397	1057.4		1.9	4*	6*
# SAMP IN STATISTICS			11		11	11	11	11		8	8	8
% SAMP (EXCLUDED)									40			
*=INTERIM TEST-NAME:			FWFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
						NH3-N			K'DAHL N			
						TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PO4
						FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.		FIL. REAC
						MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
						AS N	AS N	AS N	AS N	AS PB	PH	AS P
SAMPLE	DATE	TIME	SAMPLE	STREAM	WATER							
YYMMDD	LMT	NUMBER	FLOW	COND.	TEMP							
			M3		DEG.C							
			/S									
830110	1410	36408	0.215	6 8	3.0	0.340	0.030	4.200	1.440	0.030<	8.01	0.132
830215	1500	36420	0.080	4	1.0	0.380	0.020	4.520	1.160	0.030<	7.75	0.083
830315	1405	36424	0.274	6 8	9.0	0.020	0.017	1.910	1.720	0.030<	8.39	0.031
830419	1115	36433	1.210	6 8	4.0	0.105	0.068	4.400	1.640	0.030<	7.95	0.138
830511	1445	36446	0.529	6 8	19.0	0.045	0.046	3.350	1.920	0.030<	8.13	0.062
830712	1430	36467	0.116	7 5	30.0	0.090	0.040	1.100	1.280	0.030<	8.19	0.055
830808	1340	36478	0.167	6 8	28.0	0.040	0.035	0.900	1.400	0.030<	7.99	0.176
830914	1520	36489	0.024	6 8	17.0	0.360	0.008	0.010<			7.94	0.004
831012	1415	36500	0.052	6 8	18.0	0.220	0.005	0.010<	0.710	0.003<	7.76	0.002
831114	1300	36511	1.420	6 8	3.0	0.090	0.080	5.700	2.800	0.005	7.70	0.278
831213	1400	36522	7.460	3	2.5	0.165	0.093	2.110	1.950	0.020	7.55	0.250

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

285

B.O.W./ SITE: CANARD RIVER  
 SAMPLE POINT: 2 MILES SOUTH OF LUKERVILLE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH002

STATION ID: 10-C002-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CANARD RIVER

STORET CODE: 02  
 003  
 2700

LAT: 42 09 32.79 LONG: 083 01 06.23 U T M: 17 0333250.0 4669200.0 4 REGION: 01 DISTANCE: 12.070

*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC
SAMPLE DATE	HOUR	SAMPLE NUMBER	STREAM FLOW M3 /S	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	MG/L AS P

			MAXIMUM	7.460	30.0	0.380	0.093	5.700	2.800	0.020	8.39	0.278
			ARITH MEAN	1.050	12.2	0.169	0.040	3.132	1.602	0.012	7.94	0.110
			GEOM MEAN	0.278	7.5	0.116	0.029	1.513	1.513		7.94	0.056
			MINIMUM	0.024	1.0	0.020	0.005	0.900	0.710	0.005	7.55	0.002
			STD DEV (GEOM %)	2.179	10.7	0.136	0.029		0.561		0.24	0.094
			# SAMP IN STATISTICS	11	11	11	11	9	10	2	11	11
			% SAMP (EXCLUDED)					18		80		

*INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF B'KGRD	TURB	ZNUT ZINC UNF.TOT.
SAMPLE DATE	HOUR	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	MF CNT /100ML	MF CNT /100ML	TURB'ITY FTU	MG/L AS ZN

830110	1410	36408	0.185	4	19.9	8700C	26000	43.00	0.0400
830215	1500	36420	0.134	4<	26.9	2300	9800	27.00	0.0200
830315	1405	36424	0.186	4<	56.2	8200	5700	60.00	0.0100
830419	1115	36433	0.302	4<	70.7	10200	17000	195.00	0.0400
830511	1445	36446	0.246	4	107.6	13000	56000	151.00	0.0400
830712	1430	36467	0.172	8	53.9	3200	36000	85.00	0.0100
830808	1340	36478	0.370	12	117.3	4600C	84000	193.00	0.0300
830914	1520	36489	0.024		16.8			26.00	
831012	1415	36500	0.058		36.9			23.00	0.0060
831114	1300	36511	0.855		33.1			290.00	0.043
831213	1400	36522	0.680	44	73.6	26000	220000	495.00	0.077

			MAXIMUM	0.855	44	117.3	26000	220000	495.00	0.077
			ARITH MEAN	0.292	14	55.7	9525	56812	144.36	0.032
			GEOM MEAN	0.197		46.5	7329	31294	89.32	0.024
			MINIMUM	0.024	4	16.8	2300	5700	23.00	0.0060
			STD DEV (GEOM %)	0.258		33.9	2*	3*	145.79	0.021
			# SAMP IN STATISTICS	11	5	11	8	8	11	10
			% SAMP (EXCLUDED)		37					

## 1983 WATER QUALITY DATA REGION 1

286

B.O.W./ SITE: BIG CREEK  
 SAMPLE POINT: AT MALDEN TWP.CONC.2-3  
 STATION TYPE: RIVER

STATION ID: 16-0001-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG CREEK

STORET CODE: 02  
 003  
 2620

LAT: 42 05 15.76 LONG: 083 04 57.46 U T M: 17 0327750.0 4661400.0 4 REGION: 01 DISTANCE: 7.911

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR	NNO3FR
SAMPLE DATE	HOUR		SAMPLE DEPTH	PROJECT SUB-PROJ	CONDUCT. 25C UMHO/CM	MF CNT	MF CNT		WATER TEMP	FIL.REAC	FIL.REAC	FIL.REAC
YYMMDD	LMT	SAMPLE NUMBER	M	CODE	AT 25 C	/100ML	/100ML	STREAM COND.	DEG.C	MG/L AS N	MG/L AS N	MG/L AS N
830110	1430	36409	0.30	0101	1160.0	12	20	6 8	2.5	0.085	0.022	4.400
830315	1425	36425	0.30	0101	2200.0	10<	10<	6 8	11.0	0.670	0.050	3.400
830419	1135	36434	0.30	0101	1460.0	20AID	10<	6 8	6.0	0.275	0.043	5.400
830511	1500	36447	0.30	0101	1330.0	20AID	180	6 8	20.0	0.025	0.115	3.880
830613	1310	36457	0.30	0101	1200.0	4	8	6 8	22.0	0.150	0.008	0.040
830712	1500	36468	0.30	0101	1170.0	124	60	6 8	30.0	0.400	0.149	1.320
830808	1400	36479	0.30	0101	1410.0	360	96	6 8	29.0	0.010	0.001	0.010<
830914	1540	36490	0.30	0101	2100.0			6 8	20.0	0.220	0.010	0.010
831012	1430	36501	0.30	0101	1840.0			6 8	17.0	0.055	0.015	0.100
831114	1320	36512	0.30	0101	1750.0			6 8	4.0	0.810	0.076	4.100
831213	1420	36523	0.30	0101	454.0	540	2300	6 8	3.0	0.110	0.057	4.700
MAXIMUM			0.30		2200.0	540	2300		30.0	0.810	0.149	5.400
ARITH MEAN			0.30		1463.1	154	444		15.0	0.255	0.050	2.735
GEOM MEAN					1364.5				10.9	0.134	0.026	
MINIMUM			0.30		454.0	4	8		2.5	0.010	0.001	0.010
STD DEV (GEOM *)					495.9				10.2	0.268	0.048	
# SAMP IN STATISTICS			11		11	7	6		11	11	11	10
% SAMP (EXCLUDED)						12	25					9

*INTERIM		TEST-NAME:	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	PSAMF PSEUDOWN AERUG.	RSF	RSP	TCHF COLIFORM TOTAL	TCHFBK COLIFORM TOTAL	TURB
SAMPLE DATE	HOUR		UNF.REAC		P04 FIL.REAC	PHOSPHOR UNF.TOT.	MF CNT	RESIDUE FILTERED	RESIDUE PARTIC.	MF CNT	BCKGRD CNT	TURB'ITY
YYMMDD	LMT	SAMPLE NUMBER	MG/L AS N	PH	MG/L AS P	MG/L AS P	/100ML	MG/L	MG/L	/100ML	/100ML	FTU
830110	1430	36409	0.620	7.95	0.028	0.045	4<	890.0	6.4	420C	4900	9.60
830315	1425	36425	1.860	8.18	0.003	0.120	4<	1589.3	60.9	110	1140	51.00
830419	1135	36434	1.030	7.96	0.016	0.107	4<	1116.3	53.7	420	2400	55.00
830511	1500	36447	2.380	8.12	0.003	0.204	4<	1020.1	123.5	1400	12900	111.00
830613	1310	36457	3.160	7.81	0.013	0.300	4<	974.7	56.3	700C	240000>	51.00
830712	1500	36468	1.810	8.10	0.040	0.176	4<	886.1	34.6	1000	27000	34.00
830808	1400	36479	2.800	7.94	0.004	0.370	4	1216.4	115.0	1200C	105000	97.00
830914	1540	36490	0.280	8.18	0.013	0.030		1489.5	105.1			89.00
831012	1430	36501	2.750	7.61	0.003	0.280		1137.3	116.9			97.00
831114	1320	36512	2.850	8.10	0.001	0.140		1405.2	10.8			14.30
831213	1420	36523	1.320	7.55	0.186	0.344	36	461.6	25.4	26000	240000	195.00

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

287

B.O.W./ SITE: BIG CREEK  
 SAMPLE POINT: AT MALDEN TWP.CONC.2-3  
 STATION TYPE: RIVER

STATION ID: 16-0001-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG CREEK

STORET CODE: 02  
 003  
 2620

LAT: 42 05 15.76 LONG: 083 04 57.46 U T M: 17 0327750.0 4661400.0 4 REGION: 01 DISTANCE: 7.911

**INTERIM TEST-NAME:		NNTKUR	PH	PP04FR	PPUT	PSAMF	RSF	RSP	TCMF	TCMFBK	TURB	
		K'DAHL N				PSEUDOMN			COLIFORM	COLIFORM		
		TOTAL		PO4	PHOSPHOR	AERUG.			TOTAL	TOTAL MF		
		UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE	RESIDUE	MF	BCKGRD		
SAMPLE	DATE	MG/L		MG/L	MG/L	CNT	MG/L	MG/L	CNT	CNT	TURB'ITY	
YYMMDD	LMT	AS N	PH	AS P	AS P	/100ML			/100ML	/100ML	FTU	
		MAXIMUM	3.160	8.18	0.186	0.370	36	1589.3	123.5	26000	240000	195.00
		ARITH MEAN	1.896	7.95	0.028	0.192	20	1107.9	64.4	3906	56191	73.08
		GEOM MEAN	1.558	7.95	0.010	0.151		1058.0	46.0	937		54.30
		MINIMUM	0.280	7.55	0.001	0.030	4	461.6	6.4	110	1140	9.60
		STD DEV (GEOM *)	0.981	0.22	0.054	0.117		319.1	43.9	5*		52.93
		# SAMP IN STATISTICS	11	11	11	11	2	11	11	8	7	11
		% SAMP (EXCLUDED)					75				12	



## 1983 WATER QUALITY DATA REGION 1

288

B.O.W./ SITE: CEDAR CREEK  
 SAMPLE POINT: AT HIGHWAY NO. 18  
 STATION TYPE: RIVER

STATION ID: 16-0018-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CEDAR CREEK

STORET CODE: 02  
 003  
 2460

LAT: 42 01 57.17 LONG: 082 49 55.14 U T M: 17 0348350.0 4654800.0 4 REGION: 01 DISTANCE: 4.828

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
						BOD					FECAL	FECAL
					ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOTAL	TOT. DEM.	UNF. REAC	25C	UNF. TOT.	OXYGEN	MF	MF
					MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
					AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	TIME	NUMBER	DEPTH	PROJECT							
YMMDD	LMT			M	SUB-PROJ							
					CODE							
830110	1500		36410	0.30	0101	217.0	1.15	32.500	840.0	0.0100<	1500>	290
830215	0930		36411	0.30	0101	225.0	0.89	40.000	940.0	0.0100	50AID	110
830315	1800		36426	0.30	0101	169.0	2.22	39.000	785.0	0.0100<	170	10<
830419	1200		36435	0.30	0101	167.0	0.96	27.000	670.0	0.0100	90AID	40AID
830511	1530		36448	0.30	0101	193.0	1.20	31.000	740.0	0.0100<	230	60AID
830613	1330		36458	0.30	0101	220.0	5.92	31.000	800.0	0.0100	40AID	44
830712	1515		36469	0.30	0101	182.0	6.04	32.500	755.0	0.0100<	1500>	84
830808	1425		36480	0.30	0101	164.0	3.89	29.000	590.0	0.0100<	70AID	10AID
830914	1630		36491	0.30	0101	230.0	3.26	28.000	800.0			
831012	1445		36502	0.30	0101	226.0	4.18	29.500	820.0	0.0030		
831114	1345		36513	0.30	0101	143.0	2.84	45.500	700.0	0.006		
831213	1445		36524	0.30	0101	82.2	1.90	20.000	393.0	0.012	1600	10300
			MAXIMUM	0.30		230.0	6.04	45.500	940.0	0.012	1600	10300
			ARITH MEAN	0.30		184.8	2.87	32.083	736.1	0.008	321	1367
			GEOM MEAN			178.8	2.34	31.438	721.1			
			MINIMUM	0.30		82.2	0.89	20.000	393.0	0.0030	40	10
			STD DEV (GEOM *)			43.7	1.83	6.728	139.8	2.2		
			# SAMP IN STATISTICS	12		12	12	12	6	9	7	8
			% SAMP (EXCLUDED)						45		22	11
*INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
					NH3-N	NO2-N	NO3-N	K'DAHL N	LEAD		P04	PHOSPHOR
					TOTAL	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.	PH	FIL. REAC	UNF. TOT.
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
					AS N	AS N	AS N	AS N	AS PB		AS P	AS P
SAMPLE	DATE	TIME	NUMBER	STREAM	WATER							
YMMDD	LMT			COND.	TEMP							
					DEG.C							
830110	1500		36410	6 9	2.0	0.070	0.021	3.800	0.740	0.030<	0.021	0.059
830215	0930		36411	4	1.0	0.050	0.013	3.090	0.590	0.030<	0.009	0.031
830315	1800		36426	6 8	8.0	0.030	0.016	1.870	1.170	0.030<	0.014	0.089
830419	1200		36435	6 8	4.0	0.060	0.032	5.800	1.440	0.030<	0.048	0.140
830511	1530		36448	6 8	16.0	0.070	0.076	5.280	1.860	0.030<	0.050	0.132
830613	1330		36458	6 8	27.0	0.230	0.106	3.100	1.990	0.030<	0.022	0.200
830712	1515		36469	6 8	29.0	0.600	0.108	2.400	1.750	0.030<	0.081	0.240
830808	1425		36480	6 8	29.0	0.270	0.063	1.600	1.600	0.030<	0.024	0.130
830914	1630		36491	6 8	20.0	0.100	0.003	0.020	0.730		0.044	0.097
831012	1445		36502	6 8	16.0	0.015	0.002	0.010<	0.660	0.003<	0.012	0.083
831114	1345		36513	6 8 9	3.5	0.130	0.056	8.300	1.900	0.003<	0.138	0.245
831213	1445		36524	6 8	3.0	0.130	0.074	5.500	2.050	0.004	0.240	0.500

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

289

B.O.W./ SITE: CEDAR CREEK  
 SAMPLE POINT: AT HIGHWAY NO. 18  
 STATION TYPE: RIVER

STATION ID: 16-0018-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CEDAR CREEK

STORET CODE: 02  
 003  
 2460

LAT: 42 01 57.17 LONG: 082 49 55.14 U T M: 17 0348350.0 4654800.0 4 REGION: 01 DISTANCE: 4.828

*INTERIM TEST-NAME:		FNSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR	PPUT	
SAMPLE DATE	Y Y M M D D HOUR LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	
MAXIMUM				29.0	0.600	0.108	8.300	2.050	0.004	8.57	0.240	0.500
ARITH MEAN				13.2	0.146	0.047	3.705	1.373	0.004	7.94	0.059	0.162
GEOM MEAN				8.1	0.093	0.028		1.248		7.94	0.036	0.128
MINIMUM				1.0	0.015	0.002	0.020	0.590	0.004	7.46	0.009	0.031
STD DEV (GEOM *)				11.0	0.162	0.038		0.566		0.27	0.068	0.126
# SAMP IN STATISTICS				12	12	12	11	12	1	12	12	12
% SAMP (EXCLUDED)							8		90			

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP	TCHF COLIFORM TOTAL	TCHF BK COLIFORM TOTAL MF	TURB	ZNUT	
SAMPLE DATE	Y Y M M D D HOUR LMT	SAMPLE NUMBER	RESIDUE PARTIC. MG/L	MF CNT /100ML	BCKGRD CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN	
830110	1500	36410	8	11.9	8100C	37000	12.90	0.0900
830215	0930	36411	4<	7.6	500AID	3300	6.50	0.0200
830315	1800	36426	4<	38.1	630	1630	44.00	0.0100<
830419	1200	36435	4<	52.0	6100	12000	79.00	0.0200
830511	1530	36448	4<	32.6	5900	16600	66.00	0.0100
830613	1330	36458	4<	37.7			38.00	0.0100<
830712	1515	36469	4<	35.4	4500	21000	38.00	0.0100<
830808	1425	36480	4	25.6	190C	6800	27.00	0.0100<
830914	1630	36491		23.9			24.00	
831012	1445	36502		23.9			21.00	0.0040
831114	1345	36513		22.3			65.00	0.012
831213	1445	36524	44	42.1	2800	118000	295.00	0.052
MAXIMUM			44	52.0	8100	118000	295.00	0.0900
ARITH MEAN			19	29.4	3590	27041	59.70	0.030
GEOM MEAN				26.2	1962	12679	37.30	
MINIMUM			4	7.6	190	1630	6.50	0.0040
STD DEV (GEOM *)				12.7	4*	4*	77.38	
# SAMP IN STATISTICS			3	12	8	8	12	7
% SAMP (EXCLUDED)			66					36

## 1983 WATER QUALITY DATA REGION 1

290

B.O.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: AT CO.RD.20 4 MILES S-E OF LEAMINGTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH001

STATION ID: 16-0027-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: STURGEON RIVER

STORET CODE: 02  
 003  
 2320

LAT: 42 01 56.00 LONG: 082 33 54.02 U T M: 17 0370450.0 4654325.0 4 REGION: 01 DISTANCE: 3.058

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	COND25	DO	FCMF	FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR
						FECAL	FECAL				NH3-N
						COLIFORM	STREPCUS				TOTAL
SAMPLE	DATE	TIME	DEPTH	PROJECT	CONDUCT.	OXYGEN	MF	MF	STREAM	WATER	FIL.REAC
DATE	TIME	NUMBER	M	SUB-PROJ	25C	MG/L	CNT	CNT	FLOW	TEMP	MG/L
YYMMDD	LMT			CODE	UMHO/CM	AS O	/100ML	/100ML	M3	DEG.C	AS N
					AT 25 C				/S		
830110	0930	36400	0.30	0101	840.0	12.0	2100	390	0.163	9 8	4.0
830215	1015	36412	0.30	0101	810.0	8.0	13500	290	0.080	8 6	4.0
830315	1815	36427	0.30	0101	735.0		1100	70AID	0.084	6 8	7.0
830419	1245	36436	0.30	0101	825.0		80AID	10AID	0.139	6 8	8.0
830511	1000	36438	0.30	0101	800.0	12.0	1070	190	0.108	6 8	9.5
830613	1000	36449	0.30	0101	780.0	3.5	1000	80AID	0.046	6	20.0
830712	1030	36459	0.30	0101	790.0	8.0	4700	1400	0.039	6 8 9	23.0
830808	0940	36470	0.30	0101	760.0	4.5	4900	550	0.081	9 8 6	22.0
830914	1150	36481	0.30	0101	610.0				0.046	9 8 6	16.0
831012	1005	36492	0.30	0101	725.0	6.5			0.049	6 8 9	15.0
831114	0920	36503	0.30	0101	1030.0	10.0			0.175	6 8	4.0
831213	0950	36514	0.30	0101	805.0	10.5	1800	2100	0.632	6 8	4.0
		MAXIMUM	0.30		1030.0	12.0	13500	2100	0.632		23.0
		ARITH MEAN	0.30		792.5	8.3	3361	564	0.137		11.4
		GEOM MEAN			787.3	7.7	1687	232	0.096		9.1
		MINIMUM	0.30		610.0	3.5	80	10	0.039		4.0
		STD DEV (GEOM %)			96.6	3.1	4*	5*	0.163		7.4
		# SAMP IN STATISTICS	12		12	9	9	9	12		12
		% SAMP (EXCLUDED)									

*=INTERIM	TEST-NAME:	NNO2FR	NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
				K'DAHL N				PSEUDOWN		
				TOTAL				AERUG.		
SAMPLE	DATE	TIME	FIL.REAC	FIL.REAC	UNF.REAC	PH	PHOSPHOR	HF	RESIDUE	TURB'ITY
DATE	TIME	NUMBER	MG/L	MG/L	MG/L	AS P	MG/L	CNT	PARTIC.	FTU
YYMMDD	LMT		AS N	AS N	AS N		AS P	/100ML	MG/L	
830110	0930	36400	0.147	11.700	0.700	8.09	0.062	0.096	88	97.3
830215	1015	36412	0.046	8.100	0.920	8.05	0.067	0.089	4	12.0
830315	1815	36427	0.065	7.900	0.710	8.72	0.029	0.064	4	2.8
830419	1245	36436	0.048	11.400	0.740	8.30	0.035	0.057	4<	10.3
830511	1000	36438	0.060	9.500	0.650	7.90	0.026	0.050	4<	9.9
830613	1000	36449	0.220	5.300	1.320	7.85	0.070	0.146	4	36.2
830712	1030	36459	0.147	9.600	1.240	8.11	0.123	0.208	108	41.4
830808	0940	36470	0.114	4.000	0.900	7.89	0.052	0.100	100	46.0
830914	1150	36481	0.075	0.990	0.640	7.78	0.053	0.060		4.3
831012	1005	36492	0.006	3.400	0.690	7.83	0.044	0.073		10.1
831114	0920	36503	0.062	15.000	1.500	8.13	0.067	0.115		21.9
831213	0950	36514	0.029	14.400	0.830	7.82	0.072	0.147	4<	51.2

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

291

B.O.W./ SITE: STURGEON RIVER  
 SAMPLE POINT: AT CO.RD.20 4 MILES S-E OF LEAMINGTON  
 STATION TYPE: RIVER FLOW GAUGE FED 02GH001

STATION ID: 16-0027-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: STURGEON RIVER

STORET CODE: 02  
 003  
 2320

LAT: 42 01 56.00 LONG: 082 33 54.02

U T M: 17 0370450.0 4654325.0 4

REGION: 01

DISTANCE: 3.058

*=INTERIM		TEST-NAME:	NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	TURB
			NO2-N	NO3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN		
			FIL.REAC	FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.		
SAMPLE	DATE	NUMBER	MG/L	MG/L	MG/L		MG/L	MG/L	MF	RESIDUE	TURB'ITY
YYMMDD	LMT		AS N	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.	FTU
									/100ML	MG/L	
		MAXIMUM	0.220	15.000	1.500	8.72	0.123	0.208	108	97.3	51.00
		ARITH MEAN	0.085	8.441	0.903	8.04	0.058	0.100	51	28.6	20.58
		GEOM MEAN	0.063	6.917	0.866	8.04	0.054	0.092		18.0	14.05
		MINIMUM	0.006	0.990	0.640	7.78	0.026	0.050	4	2.8	2.50
		STD DEV (GEOM *)	0.061	4.383	0.291	0.27	0.026	0.047		27.6	16.61
		# SAMP IN STATISTICS	12	12	12	12	12	12	6	12	12
		% SAMP (EXCLUDED)							33		

## 1983 WATER QUALITY DATA REGION 1

292

B.O.W./ SITE: MUDDY CREEK  
 SAMPLE POINT: AT FIRST BRIDGE ABOVE LAKE ERIE  
 STATION TYPE: RIVER

STATION ID: 16-0032-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: MUDDY CREEK

STORET CODE: 02  
 003  
 2280

LAT: 42 03 59.88 LONG: 082 27 55.92 U T M: 17 0378750.0 4658000.0 4 REGION: 01 DISTANCE: 0.322

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	BOD5	CLIDUR	COD	COND25	DO	FCMF	FSMF	
				ALK	BOD					FECAL	FECAL	
				TOTAL	5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED	COLIFORM	STREPCUS	
				MG/L	TOT. DEM.	UNF. REAC	DEMAND	25C	OXYGEN	MF	MF	
				AS CAC03	AS O	AS CL-	AS O	UMHO/CM	MG/L	CNT	CNT	
								AT 25 C	AS O	/100ML	/100ML	
SAMPLE	DATE		SAMPLE	PROJECT								
DATE	HR		DEPTH	SUB-PROJ								
YYMMDD	LMT		M	CODE								
830110	1000	36401	0.30	0101	103.0	4.70	17.000	330.0	10.5	130	240	
830215	1030	36413	0.30	0101	110.0	4.08	20.000	1135.0	5.0	40AID	650	
830315	1830	36428	0.30	0101	132.0	6.62	24.000	415.0		10<	10<	
830419	1305	36437	0.30	0101	118.0	4.06	20.000	409.0		110	100	
830511	1015	36439	0.30	0101	117.0	4.29	17.500	368.0	4.0	20AID	30AID	
830613	1020	36450	0.30	0101	112.0	6.50	16.500	320.0	5.0	12	28	
830712	1055	36460	0.30	0101	113.0	6.38	11.500	327.0	7.0	600>	600>	
830808	1000	36471	0.30	0101	111.0	7.46	16.000	20 315.0	8.0	100	30AID	
830914	1210	36482	0.30	0101	108.0	6.04	21.000	16 317.0				
831012	1020	36493	0.30	0101	148.0	8.72	25.500	403.0	4.5			
831114	0935	36504	0.30	0101	126.0	3.81	24.500	398.0	6.5			
831213	1015	36515	0.30	0101	76.6	3.40	22.000	372.0	9.5	1700	2100	
		MAXIMUM	0.30		148.0	8.72	25.500	77 1135.0	10.5	1700	2100	
		ARITH MEAN	0.30		114.5	5.50	19.625	38 425.7	6.7	302	454	
		GEOM MEAN			113.3	5.28	19.196	29 395.4	6.3			
		MINIMUM	0.30		76.6	3.40	11.500	16 315.0	4.0	12	28	
		STD DEV (GEOM *)			17.1	1.68	4.107	34 226.7	2.3			
		# SAMP IN STATISTICS	12		12	12	12	3 12	9	7	7	
		% SAMP (EXCLUDED)								22	22	
*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	
				NH3-N			K'DAHL N				PSEUDOMN	
				TOTAL			TOTAL				AERUG.	
				FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC		PO4	PHOSPHOR	MF	
				MG/L	MG/L	MG/L	MG/L		FIL. REAC	UNF. TOT.	CNT	
				AS N	AS N	AS N	AS N	PH	AS P	AS P	/100ML	
830110	1000	36401	6 8 9	2.0	1.070	0.102	2.420	2.500	7.90	0.310	0.650	4<
830215	1030	36413	9 0 6	2.0	1.070	0.054	1.170	2.160	7.47	0.111	0.240	4<
830315	1830	36428	9 0 6	6.0	3.380	0.058	0.760	4.900	7.71	0.240	0.540	4
830419	1305	36437	9 6 8	5.0	2.500	0.140	4.300	4.050	7.76	0.390	0.605	4
830511	1015	36439	9 0 6	12.0	2.900	0.143	1.910	3.400	7.56	0.172	0.430	4
830613	1020	36450	9 0 6	20.0	1.500	0.070	0.380	2.800	7.65	0.159	0.360	4<
830712	1055	36460	9 0 6	24.0	0.005	0.020	1.600	1.000	7.33	0.158	0.400	4<
830808	1000	36471	6 8	24.0	1.150	0.180	0.330	2.400	7.36	0.114	0.380	44
830914	1210	36482	6 8 9	21.0	0.630	0.305	0.260	1.200	7.89	0.123	0.355	
831012	1020	36493	6 8	17.0	1.720	0.048	0.150	2.400	7.83	0.121	0.450	
831114	0935	36504	9 0 8	6.0	1.900	0.068	1.480	3.250	7.73	0.093	0.270	
831213	1015	36515	6 8	3.0	0.520	0.087	5.000	2.850	7.51	0.360	0.780	40

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

293

B.O.W./ SITE: MUDDY CREEK  
 SAMPLE POINT: AT FIRST BRIDGE ABOVE LAKE ERIE  
 STATION TYPE: RIVER

STATION ID: 16-0032-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: MUDDY CREEK

STORET CODE: 02  
 003  
 2280

LAT: 42 03 59.88 LONG: 082 27 55.92 U T M: 17 0378750.0 4658000.0 4 REGION: 01 DISTANCE: 0.322

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC MG/L AS N	NNO3FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PH	PPO4FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF CNT /100ML
SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	STREAM COND. DEG.C	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	AS P	AS P

MAXIMUM			24.0	3.380	0.305	5.000	4.900	7.90	0.390	0.780	44
ARITH MEAN			11.8	1.529	0.106	1.647	2.742	7.64	0.196	0.455	19
GEOM MEAN			8.3	0.894	0.085	1.002	2.519	7.64	0.174	0.430	
MINIMUM			2.0	0.005	0.020	0.150	1.000	7.33	0.093	0.240	4
STD DEV (GEOM *)			8.8	1.006	0.078	1.581	1.092	0.20	0.104	0.160	
# SAMP IN STATISTICS			12	12	12	12	12	12	12	12	5
% SAMP (EXCLUDED)											44

\*INTERIM TEST-NAME: RSP TURB

SAMPLE DATE YYMMDD	HOURLMT	SAMPLE NUMBER	RESIDUE PARTIC. MG/L	TURB'ITY FTU
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830110	1000	36401	95.0	86.00
830215	1030	36413	25.6	9.80
830315	1830	36428	45.8	29.00
830419	1305	36437	130.2	197.00
830511	1015	36439	34.6	44.00
830613	1020	36450	46.0	33.00
830712	1055	36460	77.2	71.00
830808	1000	36471	61.0	44.00
830914	1210	36482	41.8	36.00
831012	1020	36493	46.8	39.00
831114	0935	36504	30.6	26.00
831213	1015	36515	96.8	415.00

MAXIMUM		130.2	415.00
ARITH MEAN		60.9	85.82
GEOM MEAN		54.1	51.28
MINIMUM		25.6	9.80
STD DEV (GEOM *)		32.2	114.61
# SAMP IN STATISTICS		12	12
% SAMP (EXCLUDED)			

## 1983 WATER QUALITY DATA REGION 1

294

B.O.W./ SITE: JOHN CLARK DRAIN  
 SAMPLE POINT: BISNETT RD,1.1 KILO W.OF KENT CO.RD.11  
 STATION TYPE: RIVER

STATION ID: 16-0044-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RONDEAU BAY

STORET CODE: 02  
 003  
 0044

LAT: 42 17 34.93		LONG: 081 57 56.02		U T M: 17 0420400.0 4682550.0 4		REGION: 01		DISTANCE: 3.360				
#=INTERIM	TEST-NAME:	FWSADP	FGPROJ	CLIDUR	COND25	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	
SAMPLE DATE YYMMDD	TIME HOUR LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	FCMF FECAL COLIFORM MF CNT /100ML	FSMF FECAL STREPCUS MF CNT /100ML	FWSTRC COND.	FWTEMP TEMP DEG.C	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NN02FR NO2-N FIL.REAC MG/L AS N
830124	1427	35006	0.30	0101	32.000	660.0	70AID	260	4	1.0	0.125	0.041
830228	1312	35022	0.30	0101	36.500	740.0	456	10AID	6	7.0	0.080	0.049
830310	1330	30011	0.30	0101		610.0	240	30AID	6	3.5	0.020	0.033
830315	1120	30100	0.30	0101		750.0	2900	10AID	6	7.0	0.005<	0.039
830321	0940	30103	0.30	0101		700.0	40AID	110	6	6.0	0.035	0.029
830328	1310	35039	0.30	0101	29.000	615.0	80AID	600>	6	4.0	0.045	0.145
830406	1025	30112	0.30	0101		750.0	20	12	6	6.0	0.005<	0.028
830411	1000	30115	0.30	0101		630.0	560	130	6	6.0	0.060	0.034
830413	1120	30118	0.30	0101		805.0	760	52	6	6.0	0.070	0.056
830414	0924	30121	0.30	0101		386.0			6	7.0	0.115	0.088
830418	0955	30124	0.30	0101		635.0	1500>	28	6	5.0	0.045	0.022
830425	1301	35056	0.30	0101	34.000	705.0	100	10AID	6	14.0	0.010	0.043
830524	1404	35073	0.30	0101	28.500	700.0	196	88	6	21.0	0.010	0.027
830627	1308	35089	0.30	0101	31.500	600.0	10<	160	6	29.0	0.025	0.167
830725	1336	35107	0.30	0101	43.500	585.0	600>	600>	6	30.0	0.035	0.022
830822	1252	35123	0.30	0101	31.000	590.0	210	610	6	26.0	0.015	0.050
830926	1330	35140	0.30	0101	33.000	650.0			6	19.0	0.400	0.047
831024	1340	35157	0.30	0101	34.000	650.0			6	12.0	0.055	0.062
831128	1430	35174	0.30	0101	36.000	315.0			6	7.0	0.260	0.122
MAXIMUM		0.30			43.500	805.0	2900	610		30.0	0.400	0.167
ARITH MEAN		0.30			33.545	635.6	469	116		11.4	0.083	0.058
GEOM MEAN					33.326	622.3				8.4		0.048
MINIMUM		0.30			28.500	315.0	20	10		1.0	0.010	0.022
STD DEV (GEOM *)					4.168	118.3				9.1		0.042
# SAMP IN STATISTICS		19			11	19	12	13		19	17	19
% SAMP (EXCLUDED)							20	13			10	

(CONTD)

## 295

STATION ID: 16-0044-001-02

STORET CODE: 02  
003  
0044

LAT: 42 17 34.93 LONG: 081 57 56.02 U T M: 17 0420400.0 4682550.0 4 REGION: 01 DISTANCE: 3.360

[illegible]



## 1983 WATER QUALITY DATA REGION 1

296

B.O.W./ SITE: INDIAN CREEK  
 SAMPLE POINT: KENT CO.RD.11,3.4 KILO W.OF HWY 51  
 STATION TYPE: RIVER

STATION ID: 16-0050-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RONDEAU BAY

STORET CODE: 02  
 003  
 0050

LAT: 42 19 44.99 LONG: 081 53 51.14 U T M: 17 0426050.0 4686500.0 4 REGION: 01 DISTANCE: 2.400

*=-INTERIM TEST-NAME:		FMSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHIFR	NNO2FR	
						FECAL	FECAL			NH3-N		
						COLIFORM	STREPCUS			TOTAL		
SAMPLE DATE	HOUR	SAMPLE	SAMPLE	PROJECT	CHLORIDE	CONDUCT.	MF	MF	WATER	FIL.REAC	FIL.REAC	
YYMMDD	LMT	NUMBER	DEPTH	SUB-PROJ	UNF.REAC	25C	CNT	CNT	TEMP	MG/L	MG/L	
			M	CODE	MG/L	UMHO/CM	/100ML	/100ML	DEG.C	AS N	AS N	
					AS CL-	AT 25 C						
830124	1447	35007	0.30	0101	17.000	700.0	1900	380	4	1.0	0.095	0.025
830228	1320	35023	0.30	0101	35.500	810.0	10<	60AID	6	7.0	0.800	0.019
830310	1125	30010	0.30	0101		750.0	950	140	6	3.5	0.020	0.021
830315	1150	30101	0.30	0101		770.0	190	90AID	6	6.0	0.010	0.032
830321	1050	30104	0.30	0101		700.0	1500>	740	6	6.0	0.060	0.016
830328	1330	35040	0.30	0101	26.500	660.0	600>	224	6	5.5	0.035	0.079
830406	1050	30113	0.30	0101		810.0	224	532	6	6.0	0.035	0.026
830411	1050	30116	0.30	0101		705.0	1500>	160	6	6.0	0.060	0.018
830413	1205	30119	0.30	0101		740.0	690	130	6	7.0	0.055	0.030
830414	1123	30122	0.30	0101		385.0			6	7.0	0.150	0.096
830418	1055	30125	0.30	0101		780.0	70AID	320	6	6.0	0.050	0.009
830425	1334	35057	0.30	0101	31.000	730.0	20AID	10AID	6	12.0	0.040	0.026
		MAXIMUM	0.30		35.500	810.0	1900	740		12.0	0.800	0.096
		ARITH MEAN	0.30		27.500	711.7	578	253		6.1	0.117	0.033
		GEOM MEAN			26.535	700.7		159		5.4	0.057	0.027
		MINIMUM	0.30		17.000	385.0	20	10		1.0	0.010	0.009
		STD DEV (GEOM *)			7.906	112.7		3*		2.5	0.218	0.026
		# SAMP IN STATISTICS	12		4	12	7	11	12	12	12	12
		% SAMP (EXCLUDED)					36					

*=-INTERIM TEST-NAME:		NNO3FR	NNTKUR	PH	PP04FR	PPUT	RSP	TCMF	TCMFBK	TURB
			K'DAHL N					COLIFORM	COLIFORM	
			TOTAL					TOTAL	TOTAL	
SAMPLE DATE	HOUR	SAMPLE	FIL.REAC	UNF.REAC	FIL.REAC	PHOSPHOR	RESIDUE	MF	BCKGRD	TURB'ITY
YYMMDD	LMT	NUMBER	MG/L	MG/L	MG/L	MG/L	PARTIC.	CNT	CNT	FTU
			AS N	AS N	AS P	AS P	MG/L	/100ML	/100ML	
830124	1447	35007	6.530	0.940	7.92	0.002	0.064	52.1		30.00
830228	1320	35023	9.700	1.080	7.82	0.014	0.073	36.0		28.00
830310	1125	30010	7.980	0.650	8.00	0.010	0.060	18.0		16.80
830315	1150	30101	8.200	0.560	8.32	0.005	0.032	21.6		14.90
830321	1050	30104	8.130	0.740	7.98	0.018	0.077	30.7	65000	34.00
830328	1330	35040	10.200	1.320	7.81	0.029	0.210	107.2		111.00
830406	1050	30113	8.000	0.620	8.11	0.010	0.034	11.2		10.10
830411	1050	30116	10.600	0.880	8.02	0.030	0.112	48.1		63.00
830413	1205	30119	10.500	0.620	7.86	0.019	0.055	17.9		23.00
830414	1123	30122	5.500	5.130	7.65	0.190	2.350	1138.7		
830418	1055	30125	11.800	0.650	7.69	0.018	0.066	30.3		25.00
830425	1334	35057	9.200	0.800	8.24	0.007	0.085	55.5		36.00

( C O N T D )

## 297

STATION ID: 16-0050-001-02

STORET CODE: 02  
003  
0050

LAT: 42 19 44.99 LONG: 081 53 51.14 U T M: 17 0426050.0 4686500.0 4 REGION: 01 DISTANCE: 2.400

[illegible]

## 1983 WATER QUALITY DATA REGION 1

298

B.O.W./ SITE: INDIAN CREEK  
 SAMPLE POINT: 1 KM SOUTH OF GUILDS  
 STATION TYPE: RIVER

STATION ID: 16-0050-002-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: INDIAN CREEK

STORET CODE: 02  
 003  
 0050

LAT: 42 20 15.46 LONG: 081 54 33.08 U T M: 17 0425100.0 4687450.0 4 REGION: 01 DISTANCE: 3.680

*=-INTERIM TEST-NAME:		FMSADP	F6PROJ	CLIDUR	COND25	FCHF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	
SAMPLE DATE	HR	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	MF CNT /100ML	MF CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830524	1420	35074	0.30	0101	35.000	765.0	600>	564	6	20.0	0.085	0.057
830627	1324	35090	0.30	0101	34.000	650.0	560	70AID	5	29.0	0.045	0.010
830725	1345	35108	0.30	0101	30.000	600.0	1500>	600>	6	26.0	0.040	0.083
830822	1313	35124	0.30	0101	29.500	680.0	2100	270	6	23.5	0.025	0.074
830926	1410	35141	0.30	0101	35.000	785.0			6	17.0	0.150	0.025
831024	1355	35158	0.30	0101	33.500	750.0			6	12.0	0.085	0.049
831128	1448	35175	0.30	0101	37.500	380.0			6	7.0	0.300	0.120
MAXIMUM			0.30		37.500	785.0	2100	564		29.0	0.300	0.120
ARITH MEAN			0.30		33.500	658.6	1330	301		19.2	0.104	0.060
GEOM MEAN					33.393	642.9				17.5	0.076	0.047
MINIMUM			0.30		29.500	380.0	560	70		7.0	0.025	0.010
STD DEV (GEOM %)					2.858	139.8				7.8	0.096	0.037
# SAMP IN STATISTICS			7		7	7	2	3		7	7	7
% SAMP (EXCLUDED)							50	25				

*=-INTERIM TEST-NAME:		NN03FR	NNTKUR K'DAHL N TOTAL	PH	PP04FR	PPUT	RSP	TURB	
SAMPLE DATE	HR	SAMPLE NUMBER	NO3-N FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	PH	P04 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	TURB'ITY FTU
830524	1420	35074	11.700	0.700	8.28	0.037	0.064	9.6	8.90
830627	1324	35090	4.800	1.900	7.69	0.068	0.240	96.6	87.00
830725	1345	35108	11.900	0.820	8.35	46	0.086	17.7	13.70
830822	1313	35124	12.500	0.610	8.26	20	0.054	10.1	15.30
830926	1410	35141	10.700	0.570	8.18	51	0.109	57.6	46.00
831024	1355	35158	9.700	0.890	7.95	47	0.113	24.7	34.00
831128	1448	35175	4.600	4.500	7.50	0.370	1.430	507.3	1140.00
MAXIMUM			12.500	4.500	8.35	0.370	1.430	507.3	1140.00
ARITH MEAN			9.414	1.427	8.03	0.091	0.299	103.4	192.13
GEOM MEAN			8.769	1.062	8.02	0.057	0.144	38.2	43.39
MINIMUM			4.600	0.570	7.50	0.020	0.054	9.6	8.90
STD DEV (GEOM %)			3.345	1.429	0.33	0.124	0.502	180.9	418.84
# SAMP IN STATISTICS			7	7	7	7	7	7	7
% SAMP (EXCLUDED)									

## 1983 WATER QUALITY DATA REGION 1

299

B.O.W./ SITE: COLEMAN DRAIN  
 SAMPLE POINT: KENT CO.RD.11, 1.8 KILO WEST OF HWY51,  
 STATION TYPE: RIVER

STATION ID: 16-0051-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: RONDEAU BAY

STORET CODE: 02  
 003  
 0051

LAT: 42 20 22.70 LONG: 081 52 57.05 U T M: 17 0427300.0 4687650.0 4 REGION: 01 DISTANCE: 1.600

*INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	NN02FR	
						FECAL	FECAL			NH3-N		
						COLIFORM	STREPCUS			TOTAL		
SAMPLE	DATE	SAMPLE	DEPTH	PROJECT	CHLORIDE	CONDUCT.	MF	MF	WATER	FIL.REAC	FIL.REAC	
DATE	TIME	NUMBER	M	SUB-PROJ	UNF.REAC	25C	CNT	CNT	TEMP	MG/L	MG/L	
YYMMDD	LMT			CODE	MG/L	UMHO/CM	/100ML	/100ML	DEG.C	AS N	AS N	
					AS CL-	AT 25 C						
830124	1525	35008	0.30	0101	35.500	765.0	3600	5500	4	1.0	0.375	0.054
830228	1333	35024	0.30	0101	20.500	740.0	20AID	10AID	6	7.0	0.020	0.012
830310	1030	30009	0.30	0101		760.0	120	700	6	3.5	0.020	0.014
830315	1220	30102	0.30	0101		740.0	100	50AID	6	6.0	0.010	0.014
830321	1106	30105	0.30	0101		645.0	490	1500>	6	6.0	0.145	0.021
830328	1350	35041	0.30	0101	24.000	680.0	216	280	6	4.0	0.035	0.106
830406	1115	30114	0.30	0101		770.0	600>	392	6	6.0	0.005<	0.016
830411	1150	30117	0.30	0101		640.0	190	230	6	6.0	0.070	0.034
830413	1233	30120	0.30	0101		680.0	940	1500>	6	6.5	0.060	0.036
830414	1148	30123	0.30	0101		349.0			6	8.0	0.145	0.096
830418	1125	30126	0.30	0101		685.0	250	130	6	6.0	0.015	0.014
830425	1410	35058	0.30	0101	14.500	655.0	20AID	140	6	13.0	0.030	0.170
830524	1440	35075	0.30	0101	19.500	710.0	600>	236	6	20.0	0.035	0.033
830627	1340	35091	0.30	0101	13.500	630.0	600	1100	2 6	27.0	0.015	0.084
830725	1358	35109	0.30	0101	13.500	610.0	1090	890	6	25.0	0.025	0.032
830822	1333	35125	0.30	0101	14.000	635.0	2400	150	6	24.0	0.020	0.051
830926	1428	35142	0.30	0101	17.000	745.0			6	17.0	0.200	0.017
831024	1410	35159	0.30	0101	25.000	735.0			6	12.0	0.055	0.051
831128	1505	35176	0.30	0101	28.500	397.0			6	7.5	0.160	0.098
MAXIMUM		0.30			35.500	770.0	3600	5500		27.0	0.375	0.170
ARITH MEAN		0.30			20.500	661.6	772	754		10.8	0.080	0.050
GEOM MEAN					19.472	649.6				8.2		0.037
MINIMUM		0.30			13.500	349.0	20	10		1.0	0.010	0.012
STD DEV (GEOM *)					7.148	113.8				7.9		0.043
# SAMP IN STATISTICS		19			11	19	13	13	19	18	19	
% SAMP (EXCLUDED)							13	13		5		

(CONT'D)

## 300

STATION ID: 16-0051-001-02

STORET CODE: 02  
003  
0051

LAT: 42 20 22.70 LONG: 081 52 57.05 U T M: 17 0427300.0 4687650.0 4 REGION: 01 DISTANCE: 1.600

[illegible]

## 1983 WATER QUALITY DATA REGION 1

301

B.O.W./ SITE: SIXTEEN MILE CREEK  
 SAMPLE POINT: AT BACK STREET, RODNEY  
 STATION TYPE: RIVER

STATION ID: 16-0063-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SIXTEEN MILE CREEK

STORET CODE: 02  
 003  
 1970

LAT: 42 33 20.99 LONG: 081 40 35.94 U T M: 17 0444450.0 4711500.0 4 REGION: 01 DISTANCE: 8.047

*=INTERIM	TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FEUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK	BOD	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	IRON
					TOTAL	5 DAY	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	UNF.TOT.
					MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	MG/L
					AS CACO3	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	AS FE
830125	1600	35012	0.30	0101	207.0	0.57	35.000	620.0	0.0100	9.5	450	0.4200
830302	0800	35029	0.30	0101	214.0	0.78	32.000	625.0	0.0100<		900	0.3900
830329	1600	35046	0.30	0101	195.0	0.87	30.000	580.0	0.0100		30AID	0.4500
830426	1600	35063	0.30	0101	184.0	1.42	37.500	585.0	0.0100	4.0	200	0.5400
830525	0830	35080	0.30	0101	204.0	1.13	30.000	580.0	0.0100	11.5	310	0.7800
830628	1300	35096	0.30	0101	179.0	5.36	43.000	640.0	0.0100<	8.0	9900	4.1000
830726	0940	35114	0.30	0101	206.0		40.500	625.0	0.0100	7.5	2800	
830823	0930	35130	0.30	0101	231.0	1.60	45.500	680.0	0.0100	9.5	2500	0.9500
830927	1600	35147	0.30	0101	213.0	0.58	35.000	630.0	0.0040	16.0		
831024	0800	35164	0.30	0101	230.0	2.61	38.500	690.0	0.005	9.5		
831129	0820	35181	0.30	0101	211.0	1.40	30.000	610.0	0.011	11.0		
MAXIMUM		0.30			231.0	5.36	45.500	690.0	0.011	16.0	9900	4.1000
ARITH MEAN		0.30			206.7	1.63	36.091	624.1	0.009	9.5	2136	1.0900
GEOM MEAN					206.1	1.27	35.728	623.1		9.0	691	0.7395
MINIMUM		0.30			179.0	0.57	30.000	580.0	0.0040	4.0	30	0.3900
STD DEV (GEOM *)					16.3	1.44	5.421	36.6		3.1	6*	1.3433
# SAMP IN STATISTICS		11			11	10	11	11	9	10	8	7
% SAMP (EXCLUDED)									18			

*INTERIM TEST-NAME:		FSMF	FWSTRC	FWTEMP	MNUT	NNHTFR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH
		FECAL				NH3-N			K'DAHL N		
		STREPCUS			MANGANSE	TOTAL	N02-N	N03-N	TOTAL	LEAD	
		MF			UNF.TOT.	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	
		CNT	STREAM	WATER	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
		/100ML	COND.	TEMP	AS MN	AS N	AS N	AS N	AS N	AS PB	PH
SAMPLE	DATE	TIME	DEPTH	PROJECT	TOTAL	TOT.DEM.	CONDUCT.	COPPER	DO	COLIFORM	IRON
YYMMDD	LMT	NUMBER	M	SUB-PROJ	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	MG/L
				CODE	AS CACO3	AS O	AT 25 C	AS CU	AS O	/100ML	AS FE
830125	1600	35012	360	6	2.0		0.015	3.500	0.610	0.030<	8.13
830302	0800	35029	890	6	1.0		0.010	3.790	0.560	0.030<	8.06
830329	1600	35046	20AID	6	7.0		0.035	3.400	0.610	0.030<	8.32
830426	1600	35063	20AID	6	15.0		0.010	4.130	0.740	0.030<	8.59
830525	0830	35080	250	6	12.0		0.030	3.230	0.790	0.030<	8.11
830628	1300	35096	29000>	6	18.0		0.005	10.400	0.475	0.030<	7.71
830726	0940	35114	1300	6	18.0	1.030	0.025	1.410	0.520	0.030<	8.16
830823	0930	35130	1300	6	18.0		0.040	2.220	0.750	0.030<	8.17
830927	1600	35147		6	19.0		0.010	2.480	0.450	0.003<	8.36
831024	0800	35164		6	10.0		0.045	2.900	1.270	0.003<	7.96
831129	0820	35181		6	5.5		0.050	4.100	0.870	0.005	7.69

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

302

B.O.W./ SITE: SIXTEEN MILE CREEK  
 SAMPLE POINT: AT BACK STREET, RODNEY  
 STATION TYPE: RIVER

STATION ID: 16-0063-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: SIXTEEN MILE CREEK

STORET CODE: 02  
 003  
 1970

LAT: 42 33 20.99 LONG: 081 40 35.94

U T M: 17 0444450.0 4711500.0 4

REGION: 01

DISTANCE: 8.047

*=INTERIM	TEST-NAME:	FSMF FECAL STREPCUS MF CNT /100ML	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	MNUT MANGANSE UNF.TOT. MG/L AS MN	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N	NNO2FR NO2-N FIL.REAC MG/L AS N	NNO3FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PBUT LEAD UNF.TOT. MG/L AS PB	PH
	MAXIMUM	1300		19.0	1.030	0.050	0.650	10.400	1.270	0.005	8.59
	ARITH MEAN	591		11.4	1.030	0.026	0.080	3.778	0.695	0.005	8.11
	GEOM MEAN			8.4		0.021	0.028	3.340	0.665		8.11
	MINIMUM	20		1.0	1.030	0.005	0.010	1.410	0.450	0.005	7.69
	STD DEV (GEOM %)			6.7		0.016	0.189	2.347	0.234		0.27
	# SAMP IN STATISTICS	7		11	1	11	11	11	11	1	11
	% SAMP (EXCLUDED)	12								90	

*=INTERIM	TEST-NAME:	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDOMN AERUG. MF CNT /100ML	RSP RESIDUE PARTIC. MG/L	TCHF COLIFORM TOTAL MF CNT /100ML	TCHF BK COLIFORM TOTAL MF BCKGRD CNT /100ML	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN	
830125	1600	35012	0.010	0.024	4<	4.5	2200	6400	5.80	0.0200
830302	0800	35029	0.006	0.021	4<	10.8	900	770	6.50	0.0100
830329	1600	35046	0.003	0.039	4	9.2	1400	3700	5.80	0.0100<
830426	1600	35063	0.096	0.140	4<	17.4	1700	16000	5.20	0.0100<
830525	0830	35080	0.011	0.066	4<	19.9	2100C	32000	17.80	0.0100
830628	1300	35096	0.150	2.200	124	106.1	90000C	290000	90.00	0.0400
830726	0940	35114	0.036	0.066	230	22.2	19000	144000	29.00	0.0100
830823	0930	35130	0.025	0.067	8	17.9	17000	130000	22.00	0.0200
830927	1600	35147	0.018	0.033		10.4		7.80		0.004
831024	0800	35164	0.016	0.126		36.3		33.00		0.009
831129	0820	35181	0.036	0.100		37.0		33.00		0.016
	MAXIMUM	0.150	2.200	230	106.1	90000	290000	90.00	0.0400	
	ARITH MEAN	0.037	0.262	91	26.5	16787	77859	23.26	0.015	
	GEOM MEAN	0.020	0.079		18.6	4812	21782	15.18		
	MINIMUM	0.003	0.021	4	4.5	900	770	5.20	0.004	
	STD DEV (GEOM %)	0.046	0.644		28.4	5*	8*	24.83		
	# SAMP IN STATISTICS	11	11	4	11	8	8	11	9	
	% SAMP (EXCLUDED)			50					18	

## 1983 WATER QUALITY DATA REGION 1

303

B.O.W./ SITE: BROCK CREEK  
 SAMPLE POINT: AT MIDDLE ST.3MILES S.OF WEST LORNE  
 STATION TYPE: RIVER

STATION ID: 16-0066-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BROCK CREEK

STORET CODE: 02  
 003  
 1940

LAT: 42 34 42.00 LONG: 081 35 51.69 U T M: 17 0450950.0 4713950.0 4 REGION: 01 DISTANCE: 5.793

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					ALK	5 DAY					FECAL	FECAL
					TOTAL	TOT.DEM.	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					MG/L	MG/L	MG/L	25C	UNF.TOT.	OXYGEN	MF	MF
					AS CACO3	AS O	AS CL-	UMHO/CM	MG/L	MG/L	CNT	CNT
								AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	DATE	DEPTH	PROJECT								
DATE	TIME	NUMBER	M	SUB-PROJ								
YYMMDD	LMT			CODE								
830125	1620	35013	0.30	0101	204.0	0.81	72.000	725.0	0.0100	4.0	600	3900
830302	0830	35030	0.30	0101	211.0	0.81	26.500	610.0	0.0100<	3.5	330	20AID
830329	1620	35047	0.30	0101	192.0	5.18	28.000	570.0	0.0100	10.5	130	40AID
830426	1625	35064	0.30	0101	153.0	1.63	25.500	474.0	0.0100	8.0	50AID	16
830525	0900	35081	0.30	0101	234.0	1.12	21.000	545.0	0.0100	11.5	1000	144
830628	1330	35097	0.30	0101	164.0	3.30	25.000	520.0	0.0100<	10.0	48000>	31000>
830726	1000	35115	0.30	0101	171.0		40.000	535.0	0.0100<	15.5	1000	700AID
830823	1000	35131	0.30	0101	206.0	1.80	29.500	560.0	0.0100<	13.5	1150	1500>
830927	1620	35148	0.30	0101	212.0	1.66	27.500	585.0	0.0040	12.0		
831025	0850	35165	0.30	0101	199.0	8.74	35.000	615.0	0.004	10.5		
831129	0840	35182	0.30	0101	190.0	1.64	21.500	535.0	0.012	9.5		
MAXIMUM			0.30		234.0	8.74	72.000	725.0	0.012	15.5	1150	3900
ARITH MEAN			0.30		194.2	2.67	31.955	570.4	0.009	9.9	609	803
GEOM MEAN					192.8	1.97	29.961	567.1		9.1		
MINIMUM			0.30		153.0	0.81	21.000	474.0	0.0040	3.5	50	16
STD DEV (GEOM *)					23.7	2.51	14.381	65.4		3.6		
# SAMP IN STATISTICS			11		11	10	11	11	7	11	7	6
% SAMP (EXCLUDED)									36		12	25

*INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
					NH3-N	NO2-N	NO3-N	K'DAHL N	LEAD		P04	PHOSPHOR
					TOTAL	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE	DATE	DATE	STREAM									
DATE	TIME	NUMBER	COND.									
YYMMDD	LMT											
830125	1620	35013	6	2.0	0.075	0.023	4.900	0.650	0.030<	8.04	0.027	0.176
830302	0830	35030	6	1.0	0.020	0.014	5.700	0.640	0.030<	8.15	0.012	0.037
830329	1620	35047	6	8.0	0.015	1.500	4.000	3.850	0.030<	8.39	0.177	0.470
830426	1625	35064	6	13.0	0.005	0.021	4.680	1.240	0.030<	8.67	0.013	0.076
830525	0900	35081	6	12.0	0.020	0.030	4.800	0.770	0.030<	8.23	0.014	0.046
830628	1330	35097	6	18.0	0.040	0.800	10.200	0.295	0.030<	7.74	0.130	1.900
830726	1000	35115	6	21.0	0.005	0.079	2.800	0.650	0.030<	8.52	0.012	0.032
830823	1000	35131	6	20.0	0.005	0.067	3.600	1.020	0.030<	8.45	0.060	0.134
830927	1620	35148	6	20.0	0.005<	0.046	5.000	0.760	0.003<	8.39	0.047	0.090
831025	0850	35165	6	10.0	0.320	0.440	3.500	1.880	0.003<	7.94	0.099	0.290
831129	0840	35182	6	5.0	0.030	0.011	5.800	1.060	0.006	7.70	0.053	0.135

(CONTD)



## 1983 WATER QUALITY DATA REGION 1

304

B.O.W./ SITE: BROCK CREEK  
 SAMPLE POINT: AT MIDDLE ST.3MILES S.OF WEST LORNE  
 STATION TYPE: RIVER

STATION ID: 16-0066-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BROCK CREEK

STORET CODE: 02  
 003  
 1940

LAT: 42 34 42.00 LONG: 081 35 51.69 U T M: 17 0450950.0 4713950.0 4 REGION: 01 DISTANCE: 5.793

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE	HR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	LEAD UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P
YYMMDD	LMT										

MAXIMUM				21.0	0.320	1.500	10.200	3.850	0.006	8.67	0.177	1.900
ARITH MEAN				11.8	0.053	0.276	4.998	1.165	0.006	8.20	0.059	0.308
GEOM MEAN				8.6		0.072	4.725	0.931		8.20	0.038	0.137
MINIMUM				1.0	0.005	0.011	2.800	0.295	0.006	7.70	0.012	0.032
STD DEV (GEOM %)				7.3		0.476	1.959	0.982		0.32	0.055	0.544
# SAMP IN STATISTICS				11	10	11	11	11	1	11	11	11
% SAMP (EXCLUDED)					9				90			

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB	ZNUT
SAMPLE DATE	HR	MF CNT /100ML	RESIDUE PARTIC. MG/L	MF CNT /100ML	MF CNT /100ML	TURB'ITY FTU	ZINC UNF.TOT. MG/L AS ZN
YYMMDD	LMT	SAMPLE NUMBER					

830125	1620	35013	8	15.5	2400	4600	17.10	0.0300
830302	0830	35030	4<	14.7	2300	2600	11.90	0.0100<
830329	1620	35047	4<	19.7	2400	9600	18.10	0.0100<
830426	1625	35064	4<	26.9	1700	17000	10.80	0.0100<
830525	0900	35081	4<	14.5	12300C	23400	16.60	0.0100<
830628	1330	35097	600>	98.6	210000>	430000	98.00	0.0300
830726	1000	35115	20AID	15.1	3700C	44000	25.00	0.0100<
830823	1000	35131	64	15.3	17400>	43000	28.00	0.0100
830927	1620	35148		16.1			18.00	0.0040
831025	0850	35165		28.0			23.00	0.011
831129	0840	35182		50.3			56.00	0.024

MAXIMUM		64	98.6	12300	430000	98.00	0.0300
ARITH MEAN		31	28.6	4133	71775	29.32	0.018
GEOM MEAN			22.9		20954	23.20	
MINIMUM		8	14.5	1700	2600	10.80	0.0040
STD DEV (GEOM %)			25.6		5*	25.89	
# SAMP IN STATISTICS		3	11	6	8	11	6
% SAMP (EXCLUDED)		62		25			45

## 1983 WATER QUALITY DATA REGION 1

305

B.O.W./ SITE: DUTTON DRAIN  
 SAMPLE POINT: CONC.RD.7 DUNMICH TWP.S-M OF DUTTON  
 STATION TYPE: RIVER

STATION ID: 16-0072-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: TYRCONNELL CREEK

STORET CODE: 02  
 003  
 1860

LAT: 42 37 56.74 LONG: 081 29 24.99 U T M: 17 0459800.0 4719900.0 4 REGION: 01 DISTANCE: 8.851

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL
SAMPLE DATE				PROJECT	TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS
YMMDD	HOUR	SAMPLE	SAMPLE	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MF	MF
DATE	LMT	NUMBER	DEPTH	CODE	AS	AS	AS	AT 25 C	AS	AS	CNT	CNT
			M		CAC03	O	CL-		CU	O	/100ML	/100ML
830125	1640	35014	0.30	0101	227.0	0.91	48.500	730.0	0.0100	11.0	2300	3200
830302	0920	35031	0.30	0101	226.0	1.03	30.500	735.0	0.0100<	11.0	1300	220
830329	1650	35048	0.30	0101	219.0	1.12	36.000	720.0	0.0100	12.0	190	10<
830427	0730	35065	0.30	0101	156.0	21.20	45.000	680.0	0.0100	11.0	1500>	232
830525	0930	35082	0.30	0101	233.0	1.39	27.500	670.0	0.0100	5.0	1600	330
830628	1400	35098	0.30	0101	123.0	5.52	49.500	705.0	0.0100<	8.0	14900	27000>
830726	1100	35116	0.30	0101	255.0		63.000	795.0	0.0100<	5.0	300AID	300AID
830823	1045	35132	0.30	0101	264.0	2.10	36.500	650.0	0.0100<	7.0	1600	480
830927	1748	35149	0.30	0101	265.0	2.90	33.500	730.0	0.0050	5.5		
831025	0930	35166	0.30	0101	240.0	4.70	40.000	770.0	0.006	3.0		
831129	0930	35183	0.30	0101	136.0	2.30	25.000	444.0	0.021	10.5		
MAXIMUM			0.30		265.0	21.20	63.000	795.0	0.021	12.0	14900	3200
ARITH MEAN			0.30		213.1	4.32	39.545	693.5	0.010	8.1	3170	794
GEOM MEAN					206.6	2.54	38.180	686.7		7.4		
MINIMUM			0.30		123.0	0.91	25.000	444.0	0.0050	3.0	190	220
STD DEV (GEOM *)					50.9	6.14	11.208	92.9		3.2		
# SAMP IN STATISTICS			11		11	10	11	11	7	11	7	6
% SAMP (EXCLUDED)									36		12	25

*INTERIM		TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N	NN03FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT	PH	PP04FR PO4	PPUT PHOSPHOR
SAMPLE DATE	YMMDD	HR	LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
830125	1640			35014	6	1.0	0.110	0.025	4.400	0.940	0.030<	0.043	0.101
830302	0920			35031	6	1.5	0.020	0.013	4.740	0.860	0.030<	0.022	0.059
830329	1650			35048	6	5.5	0.020	0.020	4.330	0.970	0.030<	0.022	0.055
830427	0730			35065	5	8.5	2.380	0.084	1.720	5.800	0.030<	0.006	0.352
830525	0930			35082	6	13.0	0.035	0.054	4.200	1.220	0.030<	0.030	0.104
830628	1400			35098	6	18.0	0.820	2.500	31.000	5.200	0.030<	0.150	0.590
830726	1100			35116	6	20.0	0.040	0.040	3.060	1.200	0.030<	0.053	0.104
830823	1045			35132	6	20.0	0.035	0.079	2.270	1.300	0.030<	0.056	0.120
830927	1748			35149	6	17.0	0.195	0.109	4.440	1.100	0.003<	0.038	0.110
831025	0930			35166	6	10.0	0.395	0.099	4.900	2.040	0.003<	0.025	0.186
831129	0930			35183	6	4.0	0.135	0.070	4.000	2.500	0.003<	0.270	0.710

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

306

B.O.W./ SITE: DUTTON DRAIN  
 SAMPLE POINT: CONC.RD.7 DUNWICH TWP.S-M OF DUTTON  
 STATION TYPE: RIVER

STATION ID: 16-0072-001-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: TYRCONNELL CREEK

STORET CODE: 02  
 003  
 1860

LAT: 42 37 56.74 LONG: 081 29 24.99 U T M: 17 0459800.0 4719900.0 4 REGION: 01 DISTANCE: 8.851

**INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.
SAMPLE DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	FIL.REAC MG/L AS P	UNF.TOT. MG/L AS P
MAXIMUM				20.0	2.380	2.500	31.000	5.800		8.34	0.270	0.710
ARITH MEAN				10.8	0.380	0.281	6.278	2.103		7.98	0.065	0.226
GEOM MEAN				7.5	0.114	0.069	4.409	1.653		7.97	0.040	0.155
MINIMUM				1.0	0.020	0.013	1.720	0.860		7.57	0.006	0.055
STD DEV (GEOM *)				7.3	0.705	0.737	8.263	1.756		0.25	0.078	0.226
# SAMP IN STATISTICS				11	11	11	11	11		11	11	11
% SAMP (EXCLUDED)												

**INTERIM		TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE	HOUR	SAMPLE NUMBER	MF CNT /100ML	MG/L	MF CNT /100ML	MF CNT /100ML		
830125	1640	35014	4	30.1	20000	33000	41.00	0.0300
830302	0920	35031	4	20.2	11000	11000	24.00	0.0100<
830329	1650	35048	4<	15.0	1300	8300	18.90	0.0100<
830427	0730	35065	12	30.0	26000>	42000	25.00	0.0200
830525	0930	35082	4	26.2	17000	68000	38.00	0.0200
830628	1400	35098	440C	169.1	200000>	390000	226.00	0.0400
830726	1100	35116	10AID	36.6	13000	108000	50.00	0.0100<
830823	1045	35132	20	86.7	19000	140000	36.00	0.0100
830927	1748	35149		33.5			39.00	0.0070
831025	0930	35166		32.8			32.00	0.010
831129	0930	35183		137.6			460.00	0.068
MAXIMUM			440	169.1	20000	390000	460.00	0.068
ARITH MEAN			71	56.2	13550	100037	89.99	0.026
GEOM MEAN				41.2		51662	49.24	
MINIMUM			4	15.0	1300	8300	18.90	0.0070
STD DEV (GEOM *)				52.0		4*	135.87	
# SAMP IN STATISTICS			7	11	6	8	11	8
% SAMP (EXCLUDED)			12		25			27

## 1983 WATER QUALITY DATA REGION 1

307

B.O.W./ SITE: DODD CREEK  
 SAMPLE POINT: FIRST CONCESSION NORTH OF HIGHWAY 3  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC104

STATION ID: 16-0087-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 48 59.87 LONG: 081 16 40.70

U T M: 17 0477275.0 4740275.0 4

REGION: 01

DISTANCE: 36.370

*=INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COD	COND25	CRUT	CUUT	DO
					ALK	BOD						
					5 DAY		CHLORIDE	CHEM. OX	CONDUCT.	CHROMIUM	COPPER	DISOLVED
SAMPLE	DATE	HOUR	SAMPLE	PROJECT	TOTAL	TOT.DEM.	UNF.REAC	DEMAND	25C	UNF.TOT.	UNF.TOT.	OXYGEN
YMMDD	YMMDD	LHT	DEPTH	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L
			M	CODE	AS CAC03	AS O	AS CL-	AS O	AT 25 C	AS CR	AS CU	AS O
830125	1355		31809	0101	245.0	1.05	35.000	18	700.0	0.0200<	0.0100	7.0
830228	1300		31819	0101	212.0	1.86	39.000	20	655.0	0.0200	0.0100	4.5
830324			31829	0101	188.0	3.49	48.000	19	630.0	0.0200<	0.0200	
830424	1250		31839	0101	209.0	1.31	29.000	15	575.0	0.0200	0.0100<	6.0
830524	1326		31849	0101	210.0	2.23	39.000	30	608.0			7.0
830627	1200		31859	0101	130.0	1.82	48.000	28	550.0	0.0200<	0.0100	7.5
830725	1335		31869	0101	158.0		30.500	11	467.0	0.020 <	0.010	6.0
830824	1400		31879	0101	183.0	2.92	39.000	8	565.0	0.0200<	0.0200	6.5
830920	1010		31889	0101	134.0	1.82	29.000		458.0			7.0
831026	1400		31899	0101	184.0	1.16	44.000		600.0	0.003	0.027	6.0
831129	1410		31909	0101		3.24	30.000	150	491.0	0.012	0.021	
			MAXIMUM		245.0	3.49	48.000	150	700.0	0.0200	0.027	7.5
			ARITH MEAN		185.3	2.09	37.318	33	572.6	0.014	0.016	6.4
			GEOM MEAN		181.9	1.93	36.685	21	567.8			6.3
			MINIMUM	0.30	130.0	1.05	29.000	8	458.0	0.003	0.0100	4.5
			STD DEV (GEOM *)		36.4	0.87	7.247	45	77.4			0.9
# SAMP IN STATISTICS			11		10	10	11	9	11	4	8	9
% SAMP (EXCLUDED)										55	11	
*=INTERIM		TEST-NAME:	FCMF	FEUT	FSMF	FWSTRC	FWTEMP	NIUT	NNHTFR	NNO2FR	NNO3FR	NNTKUR
			FECAL	IRON	FECAL			NICKEL	NH3-N	NO2-N	NO3-N	K'DAHL N
			COLIFORM	UNF.TOT.	STREPCUS			UNF.TOT.	TOTAL	FIL.REAC	FIL.REAC	UNF.REAC
			MF	MG/L	MF		WATER	MG/L	MG/L	MG/L	MG/L	MG/L
SAMPLE	DATE	HOUR	CNT	AS FE	CNT	STREAM	TEMP	AS NI	AS N	AS N	AS N	AS N
YMMDD	YMMDD	LHT	/100ML		/100ML	COND.	DEG.C					
830125	1355		100AID	0.2800	100<	4	1.0	0.020<	0.055	0.023	4.730	0.760
830228	1300		24	0.2300	12	6	1.0	0.020	0.005	0.015	3.300	0.710
830324			31829	0.1500				0.020<	0.100	0.020	2.180	0.990
830424	1250		31839	0.7500		6	1.0	0.020<	0.010	0.015	3.200	0.610
830524	1326		200		30AID	6	14.0		0.035	0.042	4.000	0.900
830627	1200		1600	1.3600	280	6	20.0	0.040	0.170	0.088	1.760	1.160
830725	1335		600>		600>	6	27.0	0.020<	0.235	0.087	0.720	1.420
830824	1400		31879	1.2600	4100	6	26.0	0.020<	0.080	0.035	2.260	1.120
830920	1010		31889			6	24.0		0.060	0.037	1.560	0.710
831026	1400		31899	0.480		6	7.0	0.011	0.010	0.023	2.600	0.550
831129	1410		31909	11.100				0.014	0.070	0.051	5.800	1.850

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

308

B.O.W./ SITE: DODD CREEK  
 SAMPLE POINT: FIRST CONCESSION NORTH OF HIGHWAY 3  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC104

STATION ID: 16-0087-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 48 59.87 LONG: 081 16 40.70

U T M: 17 0477275.0 4740275.0 4

REGION: 01

DISTANCE: 36.370

*INTERIM TEST-NAME:		FCMF FECAL COLIFORM	FEUT IRON	FSMF FECAL STREPCUS	FWSTRC	FWTEMP WATER TEMP	NIUT NICKEL	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL
SAMPLE DATE	HR LMT	SAMPLE NUMBER	CNT /100ML	UNF.TOT. MG/L AS FE	CNT /100ML	COND.	MG/L AS NI	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N

MAXIMUM		3900	11.100	4100		27.0	0.040	0.235	0.088	5.800	1.850
ARITH MEAN		1165	1.951	1105		13.4	0.021	0.075	0.040	2.919	0.980
GEOM MEAN			0.712			6.8		0.044	0.033	2.548	0.918
MINIMUM		24	0.1500	12		1.0	0.011	0.005	0.015	0.720	0.550
STD DEV (GEOM *)			3.725			11.2		0.071	0.026	1.486	0.391
# SAMP IN STATISTICS		5	8	4		9	4	11	11	11	11
% SAMP (EXCLUDED)		16		33			55				

*INTERIM TEST-NAME:		PBUT	PH	PP04FR	PPUT	PSAMF PSEUDOWN AERUG.	RSP	ZNUT
SAMPLE DATE	HR LMT	SAMPLE NUMBER	LEAD UNF.TOT. MG/L AS PB	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L	ZINC UNF.TOT. MG/L AS ZN

830125	1355	31809	0.030<	8.04	0.062	10<	11.6	0.0100
830228	1300	31819	0.030<	8.10	0.250	4<	7.9	0.0100<
830324		31829	0.030<	8.44	0.365		10.1	0.0100
830424	1250	31839	0.030<	8.38	0.057		19.6	0.0200
830524	1326	31849		8.30	0.440	4<	34.5	
830627	1200	31859	0.030<	7.99	0.560	4<	40.3	0.0100
830725	1335	31869	0.030<	8.05	0.250	16	63.0	0.010
830824	1400	31879	0.030<	8.13	0.810	24	62.1	0.0200
830920	1010	31889		7.90	0.385		45.2	
831026	1400	31899	0.008	8.13	0.420		10.1	0.019
831129	1410	31909	0.016	7.73	0.194		83.80	0.039

MAXIMUM		0.016	8.44	0.810	0.930	24	83.80	0.039
ARITH MEAN		0.012	8.11	0.373	0.497	20	35.3	0.017
GEOM MEAN			8.11	0.310	0.391		26.1	
MINIMUM		0.008	7.73	0.057	0.062	16	7.9	0.0100
STD DEV (GEOM *)			0.21	0.209	0.279		26.1	
# SAMP IN STATISTICS		2	11	10	11	2	11	8
% SAMP (EXCLUDED)		77				66		11

## 1983 WATER QUALITY DATA REGION 1

309

B.O.W./ SITE: BEAVER CREEK  
 SAMPLE POINT: AT POND OUTLET COMMUNITY OF UNION  
 STATION TYPE: RIVER

STATION ID: 16-0087-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 42 27.38 LONG: 081 11 52.12 U T M: 17 0483800.0 4728150.0 4 REGION: 01 DISTANCE: 7.403

*=-INTERIM TEST-NAME:		FWSADP	FGPROJ	CLIDUR	COND25	DO	FCMF	FSMF	FMSTRC	FWTEMP	NNHTFR
							FECAL	FECAL			NH3-N
SAMPLE DATE	YEAR	SAMPLE NUMBER	DEPTH	PROJECT	CHLORIDE	CONDUCT.	COLIFORM	STREPCUS	STREAM	MATER	TOTAL
YYMMDD	LMT		M	SUB-PROJ	UNF. REAC	25C	MF	MF	COND.	TEMP	FIL. REAC
				CODE	MG/L	UMHO/CM	CNT	CNT		DEG.C	MG/L
					AS CL-	AT 25 C	AS O	/100ML			AS N
830125	1300	31807	0.30	0101	24.000	620.0	400AID	100<	4	1.0	0.080
830228	1120	31817	0.30	0101	21.000	560.0	36	16	6	1.0	0.020
830324	1210	31827	0.30	0101	38.000	605.0	8.0		6	1.0	0.070
830424	1215	31837	0.30	0101	20.500	530.0	7.5	50AID	6	1.0	0.075
830524	1210	31847	0.30	0101	22.500	545.0	13.5		6	13.0	0.155
830627	1205	31857	0.30	0101	6.000	510.0	11.5	12	6	27.0	0.205
830725	1235	31867	0.30	0101	22.500	505.0	10.0	32	6	27.0	0.140
830824	1350	31877	0.30	0101	20.000	466.0	9.5	4<	6	25.0	0.055
830920	0930	31887	0.30	0101	23.500	438.0	8.5		6	24.0	0.135
831026	1320	31897	0.30	0101	26.500	605.0	7.0		6	7.0	0.105
831129		31907	0.30	0101	25.000	580.0					0.090
		MAXIMUM	0.30		38.000	620.0	13.5	400	20	27.0	0.205
		ARITH MEAN	0.30		22.682	542.2	9.2	98	13	12.7	0.103
		GEOM MEAN			21.112	539.2	9.0	51		5.8	0.089
		MINIMUM	0.30		6.000	438.0	7.0	12	8	1.0	0.020
		STD DEV (GEOM %)			7.417	59.1	2.2	3*		11.9	0.052
		# SAMP IN STATISTICS	11		11	11	9	6	4	10	11
		% SAMP (EXCLUDED)							33		

*=-INTERIM TEST-NAME:		NNO2FR	NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP	
				K'DAHL N				PSEUDOMN		
SAMPLE DATE	YEAR	FIL. REAC	FIL. REAC	UNF. REAC		FIL. REAC	PHOSPHOR	AERUG.	RESIDUE	
YYMMDD	LMT	MG/L	MG/L	MG/L	PH	MG/L	MG/L	MF	PARTIC.	
		AS N	AS N	AS N		AS P	AS P	CNT	MG/L	
								/100ML		
830125	1300	31807	0.022	3.680	0.520	8.15	0.011	0.029	10<	2.1
830228	1120	31817	0.015	3.100	0.580	8.13	0.010	0.088	4	8.9
830324	1210	31827	0.015	2.530	0.630	8.12	0.004	0.044		13.0
830424	1215	31837	0.020	2.600	0.830	8.16	0.024	0.104	4<	45.7
830524	1210	31847	0.048	1.840	1.020	8.11	0.025	0.106		25.1
830627	1205	31857	0.069	1.390	0.910	8.13	0.035	0.083	4<	14.9
830725	1235	31867	0.041	0.600	0.990	8.29	0.014	0.108	4<	11.7
830824	1350	31877	0.046	1.150	0.840	8.34	0.005<	0.071	4<	6.8
830920	0930	31887	0.032	1.340	0.870	8.10	0.024	0.072		19.1
831026	1320	31897	0.038	2.300	0.590	8.00	0.041	0.078		20.4
831129		31907	0.031	3.170	0.930	7.90	0.053	0.131		31.90

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

310

B.O.W./ SITE: BEAVER CREEK  
 SAMPLE POINT: AT POND OUTLET COMMUNITY OF UNION  
 STATION TYPE: RIVER

STATION ID: 16-0087-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 42 27.38 LONG: 081 11 52.12

U T M: 17 0483800.0 4728150.0 4

REGION: 01

DISTANCE: 7.403

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
		NO2-N	NO3-N	K'DAHL N		PO4	PHOSPHOR	PSEUDOMN	
		FIL.REAC	FIL.REAC	TOTAL		FIL.REAC	UNF.TOT.	AERUG.	
SAMPLE		MG/L	MG/L	MG/L		MG/L	MG/L	MF	RESIDUE
DATE	HOUR	AS N	AS N	AS N	PH	AS P	AS P	CNT	PARTIC.
YYMMDD	LMT							/100ML	MG/L
		0.069	3.680	1.020	8.34	0.053	0.131	4	45.7
		0.034	2.155	0.792	8.13	0.024	0.083	4	18.1
		0.031	1.918	0.772	8.13		0.077		14.0
		0.015	0.600	0.520	7.90	0.004	0.029	4	2.1
		0.016	0.969	0.179	0.12		0.029		12.5
		11	11	11	11	10	11	1	11
						9		83	

# SAMP IN STATISTICS

% SAMP (EXCLUDED)

## 1983 WATER QUALITY DATA REGION 1

311

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: FIRST CONCESSION SOUTH WEST OF BELMONT  
 STATION TYPE: RIVER

STATION ID: 16-0087-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 52 27.59 LONG: 081 06 14.65 U T M: 17 0491500.0 4746650.0 4 REGION: 01 DISTANCE: 44.417

*INTERIM		TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					ALK	5 DAY						
SAMPLE DATE	HOUR		SAMPLE	PROJECT	TOTAL	TOT.DEM.	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL
YYMMDD	LMT	SAMPLE	DEPTH	SUB-PROJ	MG/L	MG/L	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS
		NUMBER	M	CODE	AS CAC03	AS O	MG/L AS CL-	UMHO/CM AT 25 C	MG/L AS CU	MG/L AS O	CNT /100ML	MF CNT /100ML
830125	0955	31802	0.30	0101	259.0	0.92	32.000	650.0	0.0200	6.0	700AID	100AID
830228	0830	31812	0.30	0101	226.0	1.36	23.000	580.0	0.0100	5.0		
830324	0950	31822	0.30	0101	245.0	0.82	29.000	615.0	0.0100	8.5		
830424	0945	31832	0.30	0101	225.0	0.78	20.500	565.0		8.0	300	290
830524	0950	31842	0.30	0101	214.0	2.82	29.500	570.0		8.0	2700	2000
830627	0940	31852	0.30	0101	269.0	2.10	22.000	580.0	0.0100<	7.0	820	90AID
830725	0945	31862	0.30	0101	233.0		19.500	520.0	0.010	8.5	880	240
830824	0950	31872	0.30	0101	276.0	0.76	21.000	615.0		8.0	450	250
830919	1200	31882	0.30	0101	251.0	1.30	24.000	605.0	0.0050	7.5		
831026	1000	31892	0.30	0101	290.0	1.25	36.000	710.0	0.004	7.0		
831129	1005	31902	0.30	0101	168.0	5.12	28.500	500.0	0.015			
			MAXIMUM		290.0	5.12	36.000	710.0	0.0200	8.5	2700	2000
			ARITH MEAN		241.5	1.72	25.909	591.8	0.011	7.3	975	495
			GEOM MEAN		239.1	1.40	25.420	589.3		7.3	754	261
			MINIMUM	0.30	168.0	0.76	19.500	500.0	0.004	5.0	300	90
			STD DEV (GEOM *)		33.8	1.36	5.384	58.0		1.1	2*	3*
			# SAMP IN STATISTICS	11	11	10	11	11	7	10	6	6
			% SAMP (EXCLUDED)						12			
*INTERIM		TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
					NH3-N			K'DAHL N				
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04	PHOSPHOR
SAMPLE DATE	HOUR		WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.	
YYMMDD	LMT	SAMPLE	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	
		NUMBER	COND.	AS N	AS N	AS N	AS N	AS N	AS PB	AS P	AS P	
830125	0955	31802	6	1.0	0.075	0.022	3.900	0.600	0.030<	7.78	0.035	0.129
830228	0830	31812	6	1.0	0.075	0.016	4.800	0.860	0.030<	8.00	0.019	0.079
830324	0950	31822	6	1.0	0.030	0.014	4.240	0.650	0.030<	8.03	0.020	0.049
830424	0945	31832	6	1.0	0.010	0.013	4.700	0.710		8.16	0.017	0.061
830524	0950	31842	6	9.0	0.145	0.090	6.000	4.300		8.04	0.081	0.880
830627	0940	31852	6	26.0	0.120	0.036	0.410	1.560	0.030<	7.96	0.042	0.238
830725	0945	31862	6	26.0	0.040	0.003	0.010<	1.060	0.030<	8.16	0.038	0.166
830824	0950	31872	6	26.0	0.025	0.013	1.940	0.700		8.11	0.040	0.085
830919	1200	31882	6	25.0	0.105	0.074	3.980	1.010	0.043	8.07	0.084	0.118
831026	1000	31892	6	8.0	0.010	0.109	4.400	1.500	0.003<	7.97	0.066	0.114
831129	1005	31902			0.245	0.050	5.800	2.450	0.009	7.73	0.205	0.605

(CONT'D)



## 312

STORET CODE: 02  
003  
1660

**DISTANCE: 44.417**

*INTERIM		TEST-NAME:	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB	ZNUT
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	MF CNT /100ML	RESIDUE PARTIC. MG/L	MF CNT /100ML	CNT /100ML	TURB*ITY FTU	ZINC UNF.TOT. MG/L AS ZN
830125	0955	31802	10<	8.5	1300	5000	13.30	0.0100
830228	0830	31812		34.3			24.00	0.0100<
830324	0950	31822		12.5			9.90	0.0100
830424	0945	31832	8	24.1	10000	6700	16.30	
830524	0950	31842	8	206.6	16000	132000	206.00	
830627	0940	31852	4<	93.1	1200C	30700	52.00	0.0100<
830725	0945	31862	4<	30.4	3600C	32700	23.0	0.010 <
830824	0950	31872	4	13.4	3900C	35000	16.80	
830919	1200	31882		20.8			19.00	0.008
831026	1000	31892		13.0			11.60	0.006
831129	1005	31902		221.8			275.00	0.040
MAXIMUM			8	221.8	16000	132000	275.00	0.040
ARITH MEAN			7	61.7	6000	40350	60.6	0.015
GEOM MEAN				32.4	3897	23186	29.2	
MINIMUM			4	8.5	1200	5000	9.90	0.006
STD DEV (GEOM #)				79.0	3*	3*	91.0	
# SAMP IN STATISTICS			3	11	6	6	11	5
% SAMP (EXCLUDED)			50					37

## 1983 WATER QUALITY DATA REGION 1

313

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: FIRST BRIDGE ABOVE PORT STANLEY  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC111

STATION ID: 16-0087-010-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 41 33.75 LONG: 081 13 03.37

U T M: 17 0482175.0 4726500.0 4

REGION: 01

DISTANCE: 4.828

*=INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	ASUT	CDUT	CLIDUR	COND25	CUUT	DO	FCMF			
SAMPLE DATE	YEAR	MONTH	DAY	TIME	PROJECT	DEPTH	ALK	ARSENIC	CADMIUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL
YYMMDD	LT	NUMBER	M	CODE	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	COLIFORM
YYMMDD	LT	NUMBER	M	CODE	AS CAC03	AS AS	AS CD	AS CL-	AT 25 C	AS CU	AS O	AS 0	AS 0	HF CNT /100ML
830125	1220	31806	0.30	0101		229.0		0.0020<	47.500	715.0	0.0500	8.5		
830228	1110	31816	0.30	0101		211.0	0.001<	0.0020<	32.500	600.0	0.0100	9.0	1500>	
830324		31826	0.30	0101		218.0	0.001	0.0020	155.000	955.0	0.0100<	10.0		
830420	1140	31836	0.30	0101		220.0	0.001<		28.500	590.0		10.5	11600	
830524	1145	31846	0.30	0101		206.0	0.001<	0.0020<	31.000	555.0	0.0100	9.0		
830627	1135	31856	0.30	0101		206.0		0.0020<	40.500	570.0	0.0200	8.0	80AID	
830725	1340	31866	0.30	0101		189.0		0.002 <	49.000	590.0	0.010	7.5	360	
830824	1330	31876	0.30	0101		205.0	0.001	0.0020<	36.500	580.0	0.0100	8.0	400	
830920	0910	31886	0.30	0101		184.0		0.0003	28.000	495.0	0.0120	8.0		
831026	1300	31896	0.30	0101		238.0		0.0002<	44.000	645.0	0.004	7.0		
831129	1250	31906	0.30	0101		188.0		0.0010	34.000	540.0	0.021			
		MAXIMUM	0.30			238.0	0.001	0.0020	155.000	955.0	0.0500	10.5	11600	
		ARITH MEAN	0.30			208.5	0.001	0.0011	47.864	621.4	0.016	8.5	3110	
		GEOM MEAN				207.9			41.575	612.0		8.5		
		MINIMUM	0.30			184.0	0.001	0.0003	28.000	495.0	0.004	7.0	80	
		STD DEV (GEOM *)				17.2			36.277	124.3		1.1		
		# SAMP IN STATISTICS	11			11	2	3	11	11	9	10	4	
		% SAMP (EXCLUDED)					60	70			10		20	
*=INTERIM TEST-NAME:		FMSF	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR			
SAMPLE DATE	YEAR	MONTH	DAY	TIME	PROJECT	DEPTH	ALK	ARSENIC	CADMIUM	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL
YYMMDD	LT	NUMBER	M	CODE	SUB-PROJ	MG/L	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	COLIFORM
YYMMDD	LT	NUMBER	M	CODE	AS CAC03	AS AS	AS CD	AS CL-	AT 25 C	AS CU	AS O	AS 0	AS 0	HF CNT /100ML
830125	1220	31806		4		1.0	0.570	0.043	5.100	1.230	0.030<	7.94	0.110	
830228	1110	31816	470	6		1.0	0.185	0.095	5.200	0.950	0.030<	8.09	0.080	
830324		31826		6		1.0	0.230	0.035	3.310	1.030	0.030<	8.15	0.075	
830420	1140	31836	1100	6		1.0	0.170	0.031	4.100	0.990		8.15	0.075	
830524	1145	31846		6		13.0	0.130	0.149	4.700	1.480	0.030<	8.19	0.095	
830627	1135	31856	90AID	6		27.0	0.020	0.163	2.800	2.160	0.030<	8.25	0.191	
830725	1340	31866	100	6		26.0	0.035	0.195	2.700	1.48	0.030<	8.57	0.160	
830824	1330	31876	30AID	6		25.0	0.005	0.078	3.500	0.700	0.030<	8.26	0.162	
830920	0910	31886		6		24.0	0.135	0.093	3.260	1.240	0.009	7.96	0.205	
831026	1300	31896		6		7.0	0.105	0.073	3.200	0.890	0.007	8.22	0.119	
831129	1250	31906					0.105	0.045	4.550	1.950	0.039	7.87	0.171	

(CONT'D)

## 314

STORET CODE: 02  
003  
1660

MAXIMUM	1100	27.0	0.570	0.195	5.200	2.160	0.039	8.57	0.205
ARITH MEAN	358	12.6	0.154	0.091	3.856	1.28	0.018	8.15	0.131
GEOM MEAN	169	5.7	0.089	0.076	3.760	1.21		8.15	0.123
MINIMUM	30	1.0	0.005	0.031	2.700	0.700	0.007	7.87	0.075
STD DEV (GEOM *)	4*	11.7	0.155	0.056	0.909	0.45		0.19	0.048
# SAMP IN STATISTICS	5	10	11	11	11	11	3	11	11
% SAMP (EXCLUDED)							70		

*INTERIM		TEST-NAME:	PPUT	PSAMF PSEUDOMN AERUG.	PIPCBT	RSF	RSP	ZNUT
SAMPLE DATE	HOUR	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	PCB TOTAL NG/L	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	ZINC UNF.TOT. MG/L AS ZN
830125	1220	31806	0.154			464.7	16.7	0.0500
830228	1110	31816	0.152	44	20<W	387.5	35.9	0.0100
830324		31826	0.146		20<W	542.2	32.4	0.0100
830420	1140	31836	0.161	208	20<W	364.5	43.6	
830524	1145	31846	0.264		20<W	388.8	84.8	0.0300
830627	1135	31856	0.370	4	20<W	334.6	77.6	0.0100
830725	1340	31866	0.375	20	20<W	413.9	44.7	0.010
830824	1330	31876	0.235	68		411.9	11.5	0.0100<
830920	0910	31886	0.336			348.2	76.7	0.014
831026	1300	31896	0.220			410.5	19.6	0.009
831129	1250	31906	0.635		20<W	411.9	11.5	0.053
MAXIMUM			0.635	208	20	542.2	84.8	0.053
ARITH MEAN			0.277	69	20<A	407.2	41.4	0.022
GEOM MEAN			0.248	35	20<A	403.7	32.9	
MINIMUM			0.146	4	20	334.6	11.5	0.009
STD DEV (GEOM *)			0.147	4*	0<A	57.4	27.3	
# SAMP IN STATISTICS			11	5	7	11	11	9
% SAMP (EXCLUDED)								10

## 1983 WATER QUALITY DATA REGION 1

315

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT ELGIN COUNTY ROAD 45  
 STATION TYPE: RIVER

STATION ID: 16-0087-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 44 11.02 LONG: 081 12 47.42 U T M: 17 0482550.0 4731350.0 4 REGION: 01 DISTANCE: 17.059

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
SAMPLE		SAMPLE	PROJECT	ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
YYMMDD	LMT	M	CODE	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
			AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML	
830125	1320	31808	0.30	0101	242.0	2.94	50.000	730.0	0.0100	7.0	
830228	1235	31818	0.30	0101	212.0	1.45	37.000	610.0	0.0100	7.0	1400
830324		31828	0.30	0101	218.0	2.38	68.000	700.0	0.0100	6.0	160
830424	1235	31838	0.30	0101	217.0	2.07	29.000	590.0	0.0100<	6.5	4100
830524	1230	31848	0.30	0101	201.0	3.91	31.500	565.0		7.0	1300
830627	1250	31858	0.30	0101	179.0	4.84	18.500	605.0	0.0100	8.0	200AID
830725	1310	31868	0.30	0101	174.0		49.500	615.0	0.010 <	8.0	4800
830824	1340	31878	0.30	0101	187.0	1.78	39.500	580.0	0.0100	9.0	100
830920	0950	31888	0.30	0101	164.0	2.56	27.500	485.0	0.0090	8.0	260
831026	1330	31898	0.30	0101	239.0	2.72	42.500	650.0	0.004	7.5	
831129	1340	31908	0.30	0101	161.0	4.12	32.000	476.0	0.019		140
	MAXIMUM	0.30			242.0	4.84	68.000	730.0	0.019	9.0	21000
	ARITH MEAN	0.30			199.5	2.88	38.636	600.5	0.010	7.4	1300
	GEOM MEAN				197.6	2.70	36.549	595.9		7.4	380
	MINIMUM	0.30			161.0	1.45	18.500	476.0	0.004	6.0	225
	STD DEV (GEOM *)				28.5	1.09	13.583	77.5		0.9	100
	# SAMP IN STATISTICS	11			11	10	11	11	8	10	5*
	% SAMP (EXCLUDED)								20		3*

*=INTERIM	TEST-NAME:	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
				NH3-N	N02-N	N03-N	K'DAHL N	LEAD		P04	PHOSPHOR
SAMPLE		STREAM	WATER	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.
DATE	HOUR	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
YYMMDD	LMT		DEG.C	AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
830125	1320	31808	6	1.0	0.525	0.080	4.970	1.260	0.030<	7.95	0.114
830228	1235	31818	6	1.0	0.145	0.055	5.200	0.850	0.030<	8.11	0.069
830324		31828	6	1.0	0.135	0.025	3.380	1.100	0.030<	8.16	0.072
830424	1235	31838	6	1.0	0.210	0.027	4.100	0.890	0.030<	8.16	0.055
830524	1230	31848	6	14.0	0.280	0.143	4.740	1.400		8.19	0.095
830627	1250	31858	6	27.0	0.690	0.380	3.200	1.740	0.030<	8.10	0.260
830725	1310	31868	6	27.0	0.300	0.060	0.540	1.100	0.030<	7.73	0.184
830824	1340	31878	6	26.0	0.315	0.500	3.700	0.940	0.030<	8.01	0.270
830920	0950	31888	6	24.0	0.125	0.078	3.320	1.160	0.008	7.96	0.230
831026	1330	31898	6	8.0	0.065	0.046	3.000	0.970	0.006	8.17	0.122
831129	1340	31908			0.100	0.051	4.750	2.100	0.035	7.84	0.195

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

316

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT ELGIN COUNTY ROAD 45  
 STATION TYPE: RIVER

STATION ID: 16-0087-012-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 44 11.02 LONG: 081 12 47.42 U T M: 17 0482550.0 4731350.0 4 REGION: 01 DISTANCE: 17.059

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N	NNO3FR NO3-N	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF. TOT.	PH	PP04FR PO4 FIL. REAC	PPUT PHOSPHOR UNF. TOT.
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	UNF. REAC MG/L AS N	AS PB	PH	AS P
MAXIMUM				27.0	0.690	0.500	5.200	2.100	0.035	8.19	0.270
ARITH MEAN				13.0	0.263	0.131	3.718	1.228	0.016	8.03	0.278
GEOM MEAN				5.9	0.208	0.080	3.305	1.181		8.03	0.240
MINIMUM				1.0	0.065	0.025	0.540	0.850	0.006	7.73	0.114
STD DEV (GEOM *)				11.9	0.193	0.158	1.311	0.387		0.15	0.165
# SAMP IN STATISTICS				10	11	11	11	11	3	11	11
% SAMP (EXCLUDED)									70		

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF BCKGRD	TURB TURB'ITY FTU	ZNUT ZINC UNF. TOT.
SAMPLE DATE YYMMDD	HOUR LHT	SAMPLE NUMBER	MF CNT /100ML	MF CNT /100ML	MF CNT /100ML	FTU	MG/L AS ZN
830125	1320	31808		14.1		13.00	0.0200
830228	1235	31818	32	26.9	1400	29.00	0.0100
830324		31828		31.4		35.00	0.0100<
830424	1235	31838	56	28.6	76000>	30.00	0.0100
830524	1230	31848	132	49.6	240000	56.00	
830627	1250	31858		20.1		19.40	0.0300
830725	1310	31868	104	41.2	139000C	32.00	0.030
830824	1340	31878	32	13.3	9200C	14.20	0.0100<
830920	0950	31888		65.7		91.00	0.013
831026	1330	31898		19.5		18.20	0.010
831129	1340	31908		264.3		400.0	0.056
MAXIMUM			132	264.3	240000	400.0	0.056
ARITH MEAN			71	52.2	98250	67.1	0.022
GEOM MEAN			60	33.7	63044	35.9	
MINIMUM			32	13.3	13000	13.00	0.0100
STD DEV (GEOM *)			2*	72.1	3*	112.7	
# SAMP IN STATISTICS			5	11	4	11	8
% SAMP (EXCLUDED)					20		20

## 1983 WATER QUALITY DATA REGION 1

317

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT COUNTY ROAD NO 31 NORTH OF ST THOMAS  
 STATION TYPE: RIVER

STATION ID: 16-0087-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 48 41.98 LONG: 081 10 16.44 U T M: 17 0486000.0 4739700.0 4 REGION: 01 DISTANCE: 29.933

*INTERIM TEST-NAME:		FWSADP	F6PROJ	CLIDUR	COND25	DO	FCMF	FSMF	FWSTRC	FWTEMP	NNHTFR	
							FECAL	FECAL			NH3-N	
							MF	MF			TOTAL	
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	CHLORIDE UNF. REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	DISOLVED OXYGEN MG/L AS O	COLIFORM CNT /100ML	STREPCUS CNT /100ML	STREAM COND.	WATER TEMP DEG.C	FIL. REAC MG/L AS N
830125	0925	31801	0.30	0101	27.000	640.0		100AID	100<	2	1.0	0.165
830324	0930	31821	0.30	0101	26.500	590.0	6.0			6	1.0	0.035
830424	0930	31831	0.30	0101	20.000	560.0	6.5	140	70AID	6	1.0	0.015
830524	0935	31841	0.30	0101	24.500	570.0	6.0	670	240	6	9.0	0.075
830627	0925	31851	0.30	0101	22.500	440.0	7.0	4<	8	6	25.0	0.010
830725	0920	31861	0.30	0101	21.500	442.0	8.0	20	20	6	25.0	0.145
830824	0915	31871	0.30	0101	18.500	570.0	6.5	92	48	6	24.0	0.025
830920	0900	31881	0.30	0101	22.000	545.0	6.0			6	25.0	0.085
831026	0915	31891	0.30	0101	32.000	650.0	5.0			6	8.0	0.015
831129		31901	0.30	0101	29.500	455.0				6		0.175
		MAXIMUM	0.30		32.000	650.0	8.0	670	240		25.0	0.175
		ARITH MEAN	0.30		24.400	546.2	6.4	204	77		13.2	0.074
		GEOM MEAN			24.066	541.1	6.3				6.7	0.047
		MINIMUM	0.30		18.500	440.0	5.0	20	8		1.0	0.010
		STD DEV (GEOM *)			4.306	76.9	0.9				11.3	0.066
		# SAMP IN STATISTICS	10		10	10	8	5	5		9	10
		% SAMP (EXCLUDED)						16	16			

*INTERIM TEST-NAME:		NNO2FR	NNO3FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
				K'DAHL N				PSEUDOMN	
				TOTAL				AERUG.	
SAMPLE DATE	YMMDD LMT	SAMPLE NUMBER	FIL. REAC MG/L AS N	FIL. REAC MG/L AS N	UNF. REAC MG/L AS N	FIL. REAC MG/L AS P	PHOSPHOR UNF. TOT. MG/L AS P	MF CNT /100ML	RESIDUE PARTIC. MG/L
830125	0925	31801	0.015	5.400	0.740	8.05	0.026	0.050	10<
830324	0930	31821	0.013	4.190	0.640	8.05	0.015	0.043	17.2
830424	0930	31831	0.012	4.300	0.630	8.18	0.015	0.060	4<
830524	0935	31841	0.061	4.990	2.700	8.20	0.040	0.365	4<
830627	0925	31851	0.001<	0.010<	1.330	8.34	0.001	0.109	4<
830725	0920	31861	0.078	1.730	1.240	8.11	0.010	0.114	4
830824	0915	31871	0.023	1.560	0.800	8.35	0.005<	0.060	4<
830920	0900	31881	0.084	4.320	0.950	8.03	0.091	0.151	26.2
831026	0915	31891	0.022	2.900	1.330	8.05	0.031	0.094	25.4
831129		31901	0.055	5.540	2.650	7.78	0.230	0.765	295.6

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

318

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT COUNTY ROAD NO 31 NORTH OF ST THOMAS  
 STATION TYPE: RIVER

STATION ID: 16-0087-015-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 48 41.98 LONG: 081 10 16.44 U T M: 17 0486000.0 4739700.0 4 REGION: 01 DISTANCE: 29.933

*INTERIM TEST-NAME:		NN02FR	NN03FR	NNTKUR	PH	PP04FR	PPUT	PSAMF	RSP
				K'DAHL N				PSEUDOMN	
		NO2-N	NO3-N	TOTAL		PO4	PHOSPHOR	AERUG.	
		FIL.REAC	FIL.REAC	UNF.REAC		FIL.REAC	UNF.TOT.	MF	RESIDUE
SAMPLE		MG/L	MG/L	MG/L		MG/L	MG/L	CNT	PARTIC.
DATE	HOUR	AS N	AS N	AS N	PH	AS P	AS P	/100ML	MG/L
YYMMDD	LMT	NUMBER							
MAXIMUM		0.084	5.540	2.700	8.35	0.230	0.765	4	295.6
ARITH MEAN		0.040	3.881	1.301	8.11	0.051	0.181	4	51.6
GEOM MEAN				1.135	8.11		0.114		28.1
MINIMUM		0.012	1.560	0.630	7.78	0.001	0.043	4	5.5
STD DEV (GEOM *)				0.772	0.17		0.226		86.4
# SAMP IN STATISTICS		9	9	10	10	9	10	1	10
% SAMP (EXCLUDED)		10	10			10		83	

## 1983 WATER QUALITY DATA REGION 1

319

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT ELGIN CO.ROAD NO.16 ST.THOMAS  
 STATION TYPE: RIVER FLOW GAUGE FED.02GC002

STATION ID: 16-0087-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 46 40.96 LONG: 081 12 50.14 U T M: 17 0482500.0 4735975.0 4 REGION: 01 DISTANCE: 21.564

*=-INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COD	COND25	CRUT	CUUT	DO
					BOD						
					5 DAY	CHLORIDE	CHEM. OX	CONDUCT.	CHROMIUM	COPPER	DISOLVED
					TOT. DEM.	UNF. REAC	DEMAND	25C	UNF. TOT.	UNF. TOT.	OXYGEN
SAMPLE		SAMPLE	PROJECT	ALK	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	MG/L
DATE	HOUR	DEPTH	SUB-PROJ	TOTAL	AS O	AS CL-	AS O	AT 25 C	AS CR	AS CU	AS O
YYMMDD	LMT	M	CODE	AS CACO3							
830125	0840	31800	0101	229.0	1.08	63.500	20	765.0			8.0
830228	1320	31810	0101	240.0	0.79	24.000	11	640.0			6.0
830324	0900	31820	0101	225.0	2.66	49.000	29	640.0			5.5
830424	0900	31830	0101	217.0	1.16	26.000	13	570.0			5.0
830524	0905	31840	0101	200.0	2.85	29.000	31	540.0			6.0
830627	0900	31850	0101	173.0	2.14	34.500	30	495.0			6.0
830725	0900	31860	0101	189.0		38.000	6	510.0			5.5
830824	0900	31870	0101	225.0	1.30	27.000	23	560.0		0.0200	6.0
830920	0830	31880	0101	165.0	3.50	23.500		434.0	0.0040	0.0200	5.0
831026	0830	31890	0101	245.0	1.15	41.500		650.0			6.0
831129		31900	0101	172.0	4.08	33.000		510.0			
MAXIMUM		0.30		245.0	4.08	63.500	31	765.0	0.0040	0.0200	8.0
ARITH MEAN		0.30		207.3	2.07	35.364	20	574.0	0.0040	0.0200	5.9
GEOM MEAN				205.4	1.79	33.723	18	567.4		0.0200	5.9
MINIMUM		0.30		165.0	0.79	23.500	6	434.0	0.0040	0.0200	5.0
STD DEV (GEOM *)				28.8	1.15	12.233	10	92.9		0.0000	0.8
# SAMP IN STATISTICS		11		11	10	11	8	11	1	2	10
% SAMP (EXCLUDED)											

*=-INTERIM TEST-NAME:		FCMF	FEUT	FSMF	FWFLOW	FWSTRC	FWTEMP	NIUT	NNHTFR	NN02FR	NN03FR
		FECAL		FECAL					NH3-N		
		COLIFORM	IRON	STREPCUS	STREAM			NICKEL	TOTAL	NO2-N	NO3-N
		MF	UNF. TOT.	MF	FLOW			UNF. TOT.	FIL. REAC	FIL. REAC	FIL. REAC
SAMPLE		CNT	MG/L	CNT	M3	STREAM	WATER	MG/L	MG/L	MG/L	MG/L
DATE	HOUR	/100ML	AS FE	/100ML	/S	COND.	TEMP	AS NI	AS N	AS N	AS N
YYMMDD	LMT						DEG.C				
830125	0840	200AID		100AID	0.570	6	1.0		0.075	0.020	4.400
830228	1320				2.380	2	2.0		0.080	0.023	5.700
830324	0900				1.950	6	1.0		0.450	0.020	3.180
830424	0900	50AID		230	1.800	6	1.0		0.015	0.013	3.900
830524	0905	480		130	4.890	6	8.0		0.090	0.078	4.720
830627	0900	600>		590	0.262	6	25.0		0.060	0.040	0.550
830725	0900	600>		700	0.214	6	25.0		0.065	0.040	1.830
830824	0900	450		230	0.489	6	24.0		0.015	0.015	1.710
830920	0830		2.9000		1.350	6	25.0	0.007	0.145	0.051	2.500
831026	0830				1.510	6	7.0		0.025	0.021	2.400
831129					24.800				0.095	0.050	4.200

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

320

B.O.W./ SITE: KETTLE CREEK  
 SAMPLE POINT: AT ELGIN CO.ROAD NO.16 ST.THOMAS  
 STATION TYPE: RIVER FLOW GAUGE FED.02GC002

STATION ID: 16-0087-016-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: KETTLE CREEK

STORET CODE: 02  
 003  
 1660

LAT: 42 46 40.96 LONG: 081 12 50.14

U T M: 17 0482500.0 4735975.0 4

REGION: 01

DISTANCE: 21.564

*INTERIM TEST-NAME:		FCMF FECAL COLIFORM	FEUT IRON UNF.TOT.	FSMF FECAL STREPCUS	FNFLOW STREAM FLOW	FNSTRC STREAM COND.	FNTEMP WATER TEMP	NIUT NICKEL UNF.TOT.	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	CNT /100ML AS FE	CNT /100ML	M3 /S		DEG.C	MG/L AS NI	MG/L AS N	MG/L AS N	MG/L AS N

MAXIMUM		480	2.9000	700	24.800		25.0	0.007	0.450	0.078	5.700
ARITH MEAN		295	2.9000	330	3.656		11.9	0.007	0.101	0.034	3.190
GEOM MEAN				256	1.371		5.8		0.064	0.029	2.734
MINIMUM		50	2.9000	100	0.214		1.0	0.007	0.015	0.013	0.550
STD DEV (GEOM *)				2*	7.137		11.3		0.122	0.020	1.541
# SAMP IN STATISTICS		4	1	6	11		10	1	11	11	11
% SAMP (EXCLUDED)		33									

*INTERIM TEST-NAME:		NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	ZNUT ZINC UNF.TOT.
SAMPLE DATE	HOUR LMT	SAMPLE NUMBER	MG/L AS N	MG/L AS PB	PH	MG/L AS P	MG/L AS P	CNT /100ML	MG/L AS ZN

830125	0840	31800	0.650		7.69	0.043	0.080	10AID	8.5
830228	1320	31810	0.760		7.65	0.043	0.092		25.5
830324	0900	31820	2.950		8.09	0.068	0.151		29.3
830424	0900	31830	0.760		8.21	0.020	0.082	4<	29.6
830524	0905	31840	1.160		8.22	0.044	0.137	4	46.1
830627	0900	31850	0.960		7.94	0.028	0.114	4	38.8
830725	0900	31860	1.700		7.95	0.039	0.196	28	52.8
830824	0900	31870	1.010	0.030<	7.99	0.059	0.136	4	33.0
830920	0830	31880	1.420	0.009	7.81	0.111	0.304		69.8
831026	0830	31890	1.710		8.01	0.038	0.145		21.3
831129		31900	2.100		7.82	0.184	0.560		214.2
MAXIMUM		2.950	0.009	8.22	0.184	0.560	28	214.2	0.017
ARITH MEAN		1.380	0.009	7.94	0.062	0.182	10	51.7	0.017
GEOM MEAN		1.241		7.94	0.051	0.151		37.2	
MINIMUM		0.650	0.009	7.65	0.020	0.080	4	8.5	0.017
STD DEV (GEOM *)		0.697		0.19	0.047	0.141		56.3	
# SAMP IN STATISTICS		11	1	11	11	11	5	11	1
% SAMP (EXCLUDED)			50				16		50

## 1983 WATER QUALITY DATA REGION 1

321

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT CONC ROAD 2 MILES EAST OF SPARTA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC018

STATION ID: 16-0097-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 42 08.51 LONG: 081 02 44.83 U T M: 17 0496250.0 4727550.0 4 REGION: 01 DISTANCE: 5.150

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	CDUT	CLIDUR	COND25	CUUT	DO	FCMF
SAMPLE DATE	YEAR	MONTH	DAY	TIME	ALK TOTAL	ARSENIC UNF. TOT.	CADMIUM UNF. TOT.	CHLORIDE UNF. REAC	CONDUCT. 25C	COPPER UNF. TOT.	DISOLVED OXYGEN
YYMMDD	LMT	SAMPLE NUMBER	DEPTH M	PROJECT SUB-PROJ CODE	MG/L AS CACO3	MG/L AS AS	MG/L AS CD	MG/L AS CL-	UMHO/CM AT 25 C	MG/L AS CU	MG/L AS O
830125	1130	31805	0.30	0101	240.0	0.001 <	0.0020<	26.500	625.0	0.0100<	7.0
830228	1030	31815	0.30	0101	227.0	0.001 <	0.0020<	25.000	600.0	0.0100	7.5
830324		31825	0.30	0101	224.0	0.001	0.0020<	33.500	615.0	0.0100	8.0
830420	1125	31835	0.30	0101	224.0	0.001 <	0.0020<	25.500	590.0	0.0100<	8.0
830524	1120	31845	0.30	0101	204.0			27.000	565.0		9.0
830627	1100	31855	0.30	0101	226.0		0.0020<	21.000	550.0	0.0100	6.0
830725	1150	31865	0.30	0101	191.0		0.020 <	37.000	505.0	0.030	8.0
830824	1200	31875	0.30	0101	221.0		0.0020<	22.000	570.0	0.0100	8.0
830919	1400	31885	0.30	0101	212.0	0.0010	0.0002	20.500	515.0	0.0270	7.5
831026	1130	31895	0.30	0101	238.0		0.0002<	32.500	630.0	0.004	7.0
831129	1210	31905	0.30	0101	148.0		0.0010	30.500	452.0	0.023	
MAXIMUM		0.30			240.0	0.0010	0.0010	37.000	630.0	0.030	1450
ARITH MEAN		0.30			214.1	0.001	0.0006	27.364	565.2	0.015	382
GEOM MEAN					212.4			26.887	562.5		167
MINIMUM		0.30			148.0	0.001	0.0002	20.500	452.0	0.004	12
STD DEV (GEOM %)					26.1			5.413	55.9		0.8
# SAMP IN STATISTICS		11			11	2	2	11	11	8	10
% SAMP (EXCLUDED)						60	80			20	6

*INTERIM TEST-NAME:		FSMF	FWFLOW	FWSTRC	FWTEMP	NNHTFR	NNO2FR	NNO3FR	NNTKUR	PBUT	PH
		FECAL				NH3-N			K'DAHL N		
SAMPLE DATE	YEAR	STREPCUS	STREAM	STREAM	WATER	FIL. REAC	FIL. REAC	FIL. REAC	UNF. REAC	UNF. TOT.	
YYMMDD	LMT	MF	FLOW	COND.	TEMP	MG/L	MG/L	MG/L	MG/L	MG/L	PH
830125	1130	100<	0.690	6	1.0	0.070	0.023	3.800	0.520	0.030<	7.99
830228	1030	52	2.800	6	2.0	0.035	0.018	4.700	0.570	0.030<	8.20
830324			2.350	6	1.0	0.040	0.018	3.900	0.710	0.030<	8.17
830420	1125	90AID	4.000	6	1.0	0.065	0.026	4.200	0.930	0.030<	8.23
830524	1120		5.900	6	12.5	0.160	0.121	5.700	1.400		8.28
830627	1100		0.315	6	19.0	0.015	0.031	0.840	0.980	0.030<	8.35
830725	1150		0.260	6	26.0	0.035	0.005	0.130	1.380	0.030<	8.24
830824	1200	40AID	0.590	6	25.0	0.005	0.017	1.640	0.680	0.030<	8.34
830919	1400		2.150	6	24.0	0.050	0.050	3.000	0.840	0.007	8.12
831026	1130		1.850	6	7.0	0.020	0.078	4.100	0.940	0.003<	8.25
831129	1210		30.000	6		0.155	0.059	4.890	0.285	0.033	7.80

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

322

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT CONC ROAD 2 MILES EAST OF SPARTA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC018

STATION ID: 16-0097-003-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 42 08.51 LONG: 081 02 44.83 U T M: 17 0496250.0 4727550.0 4 REGION: 01 DISTANCE: 5.150

*INTERIM TEST-NAME:		FSMF FECAL STREPCUS	FWFLOW STREAM FLOW	FWSTRC STREAM COND.	FWTEMP WATER TEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH
SAMPLE DATE	HR HOUR	SAMPLE NUMBER	CNT /100ML	M3 /S	DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH
YYMMDD	LHT										
		MAXIMUM	256	30.000	26.0	0.160	0.121	5.700	1.400	0.033	8.35
		ARITH MEAN	116	4.628	11.8	0.059	0.041	3.355	0.840	0.020	8.18
		GEOM MEAN		1.794	5.9	0.040	0.029	2.436	0.770		8.18
		MINIMUM	40	0.260	1.0	0.005	0.005	0.130	0.285	0.007	7.80
		STD DEV (GEOM *)		8.589	10.8	0.052	0.034	1.767	0.342		0.16
		# SAMP IN STATISTICS	5	11	10	11	11	11	11	2	11
		% SAMP (EXCLUDED)	16							80	

*INTERIM TEST-NAME:		PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	PSAMF PSEUDOHN AERUG.	P1PCBT PCB TOTAL	RSF RESIDUE FILTERED	RSP RESIDUE PARTIC.	ZNUT ZINC UNF.TOT.
SAMPLE DATE	HR HOUR	SAMPLE NUMBER	MG/L AS P	MG/L AS P	CNT /100ML	MG/L	MG/L	MG/L AS ZN
YYMMDD	LHT							
830125	1130	31805	0.026	0.042	10<	407.8	4.2	0.0100<
830228	1030	31815	0.037	0.092	4<	399.2	15.9	0.0100<
830324		31825	0.027	0.058		338.6	16.6	0.0100<
830420	1125	31835	0.053	0.141	4	361.4	47.2	0.0100
830524	1120	31845	0.065	0.230	20<M	401.5	97.7	
830627	1100	31855	0.006	0.135	12	325.5	56.2	0.0100<
830725	1150	31865	0.007	0.160	4<	349.7	84.5	0.010
830824	1200	31875	0.005<	0.047	4	424.6	10.1	0.0100<
830919	1400	31885	0.112	0.230		368.8	58.4	0.015
831026	1130	31895	0.077	0.137		426.1	14.0	0.005
831129	1210	31905	0.235	0.950		410.3	406.9	0.069
		MAXIMUM	0.235	0.950	12	426.1	406.9	0.069
		ARITH MEAN	0.064	0.202	7	383.0	73.8	0.022
		GEOM MEAN		0.132		381.5	34.5	
		MINIMUM	0.006	0.042	4	325.5	4.2	0.005
		STD DEV (GEOM *)		0.256		35.5	114.9	
		# SAMP IN STATISTICS	10	11	3	1	11	5
		% SAMP (EXCLUDED)	9		50			50

## 1983 WATER QUALITY DATA REGION 1

323

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT HIGHWAY NO 3 WEST OF ORMELL  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC110

STATION ID: 16-0097-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 46 31.92 LONG: 081 02 35.12 U T M: 17 0496475.0 4735675.0 4 REGION: 01 DISTANCE: 24.944

*INTERIM TEST-NAME:		FMSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	TIME	DEPTH	PROJECT	ALK						
YYMMDD	LMT	NUMBER	M	SUB-PROJ	MG/L						
				CODE	AS CAC03						
830125	0920	31803	0.30	0101		0.87	37.000	670.0	0.0100	700AID	100<
830228	0920	31813	0.30	0101	233.0	0.94	26.500	640.0	0.0100	110	80AID
830324	1005	31823	0.30	0101	240.0	2.10	37.000	665.0	0.0100		
830424	1005	31833	0.30	0101	227.0	5.22	31.500	740.0		420	1900
830524	1020	31843	0.30	0101	217.0	2.10	26.500	610.0		2800	140
830627	1000	31853	0.30	0101	248.0	2.06	17.000	605.0	0.0100	210	110
830725	1005	31863	0.30	0101	215.0		33.000	610.0	0.010 <	250	110
830824	1005	31873	0.30	0101	248.0	1.09	27.000	640.0	0.0100	260	70AID
830919	1215	31883	0.30	0101	229.0	3.10	24.000	580.0	0.0050		
831026	1020	31893	0.30	0101	251.0	4.51	39.000	700.0	0.004		
831129	1025	31903	0.30	0101	146.0	6.78	30.500	454.0	0.023		
MAXIMUM			0.30		251.0	6.78	39.000	740.0	0.023	2800	1900
ARITH MEAN			0.30		225.4	2.88	29.909	628.5	0.010	679	402
GEOM MEAN					223.1	2.29	29.187	624.2		384	
MINIMUM			0.30		146.0	0.87	17.000	454.0	0.004	110	70
STD DEV (GEOM *)					30.6	2.01	6.549	74.1		0.7	3*
# SAMP IN STATISTICS			11		10	10	11	11	8	10	6
% SAMP (EXCLUDED)									11	7	14
*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
				NH3-N			K'DAHL N				
				TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04	PHOSPHOR
				FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.
				MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
				AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE	DATE	TIME	STREAM	WATER							
YYMMDD	LMT	NUMBER	COND.	TEMP							
				DEG.C							
830125	0920	31803	6	1.0	0.105	0.036	4.400	0.630	0.030<	0.052	0.078
830228	0920	31813	6	1.0	0.070	0.027	5.300	0.690	0.030<	0.045	0.101
830324	1005	31823	6	1.0	0.045	0.026	5.100	1.160	0.030<	0.059	0.240
830424	1005	31833	6	1.0	0.055	0.026	4.600	1.240		0.082	0.240
830524	1020	31843	6	10.0	0.135	0.094	6.300	1.200		0.065	0.180
830627	1000	31853	6	26.0	0.150	0.119	1.770	1.420	0.030<	0.042	0.254
830725	1005	31863	6	26.0	0.045	0.040	1.550	1.020	0.030<	0.083	0.212
830824	1005	31873	6	25.0	0.025	0.018	2.800	0.820	0.030<	0.053	0.107
830919	1215	31883	6	25.0	0.035	0.063	3.600	0.890	0.003<	0.118	0.335
831026	1020	31893	6	7.0	0.315	0.116	4.600	1.250	0.003<	0.077	0.225
831129	1025	31903			0.140	0.057	5.290	3.000	0.030	0.235	0.940

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

324

B.D.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT HIGHWAY NO 3 WEST OF ORWELL  
 STATION TYPE: RIVER FLOW GAUGE MOE 02GC110

STATION ID: 16-0097-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 46 31.92 LONG: 081 02 35.12 U T M: 17 0496475.0 4735675.0 4 REGION: 01 DISTANCE: 24.944

*=INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR P04 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	
DATE	HOUR	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	PH	MG/L AS P	MG/L AS P	
		MAXIMUM		26.0	0.315	0.119	6.300	3.000	0.030	8.30	0.235	0.940
		ARITH MEAN		12.3	0.102	0.057	4.119	1.211	0.030	8.09	0.083	0.265
		GEOM MEAN		5.6	0.078	0.047	3.790	1.104		8.09	0.072	0.209
		MINIMUM		1.0	0.025	0.018	1.550	0.630	0.030	7.65	0.042	0.078
		STD DEV (GEOM *)		11.7	0.084	0.037	1.522	0.644		0.17	0.055	0.237
		# SAMP IN STATISTICS		10	11	11	11	11	1	11	11	11
		% SAMP (EXCLUDED)							88			

*=INTERIM TEST-NAME:		PSAMF PSEUDOMH AERUG.	RSP RESIDUE PARTIC.	TCNFBK COLIFORM TOTAL	TCNFBK COLIFORM TOTAL MF	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT.
DATE	HOUR	SAMPLE NUMBER	MF CNT /100ML	MF CNT /100ML	MF CNT /100ML		MG/L AS ZN
830125	0920	31803	10AID	4.7	3000	5500	5.90
830228	0920	31813	4<	21.0	670	470	18.00
830324	1005	31823		189.9			106.00
830424	1005	31833	4<	24.4	6800	10200	23.00
830524	1020	31843	4	36.0	35000	12000	41.00
830627	1000	31853	4<	93.7	210C	42400	77.00
830725	1005	31863	4<	44.3	680C	24000>	40.00
830824	1005	31873	4<	11.1	16900>	29000	8.60
830919	1215	31883		58.1			47.00
831026	1020	31893		19.5			14.70
831129	1025	31903		361.8			460.00
		MAXIMUM	10	361.8	35000	42400	460.00
		ARITH MEAN	7	78.6	7727	16595	76.47
		GEOM MEAN		38.9			34.75
		MINIMUM	4	4.7	210	470	5.90
		STD DEV (GEOM *)		107.7			130.81
		# SAMP IN STATISTICS	2	11	6	6	11
		% SAMP (EXCLUDED)	71		14	14	55

## 1983 WATER QUALITY DATA REGION 1

325

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT ELGIN COUNTY ROAD NO 40 GLENCOLIN  
 STATION TYPE: RIVER

STATION ID: 16-0097-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 47 34.29 LONG: 080 55 53.50 U T M: 17 0505600.0 4737600.0 4 REGION: 01 DISTANCE: 34.761

**INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	FECAL
					5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
					TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
					MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
					AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE	DATE	DATE	DEPTH	PROJECT	ALK						
DATE	TIME	NUMBER	M	SUB-PROJ	TOTAL						
YYMMDD	LMT			CODE	MG/L						
YYMMDD	LMT			AS CAC03							
830125	1035	31804	0.30	0101	250.0	0.86	23.500	650.0	0.0100	9.5	1200
830324	1040	31824	0.30	0101	247.0	1.75	47.000	715.0	0.0100	10.0	200AID
830424	1040	31834	0.30	0101	234.0	1.00	21.500	625.0		10.0	
830524	1055	31844	0.30	0101	234.0	1.00	24.000	630.0		9.0	800
830627	1035	31854	0.30	0101	238.0	1.50	25.000	610.0	0.0100<	7.5	140
830725	1040	31864	0.30	0101	217.0		16.500	570.0	0.010 <	8.0	1420
830824	1030	31874	0.30	0101	251.0	1.18	19.000	640.0	0.0100	9.0	800
830919	1235	31884	0.30	0101	252.0	1.55	22.000	620.0	0.0050	8.5	400
831026	1040	31894	0.30	0101	268.0	0.97	29.500	700.0	0.004	9.0	
831129	1050	31904	0.30	0101	160.0	3.66	29.500	510.0	0.017		
		MAXIMUM	0.30		268.0	3.66	47.000	715.0	0.017	10.0	800
		ARITH MEAN	0.30		235.1	1.50	25.750	627.0	0.009	8.9	338
		GEOM MEAN			233.1	1.35	24.729	624.4		8.9	267
		MINIMUM	0.30		160.0	0.86	16.500	510.0	0.004	7.5	140
		STD DEV (GEOM *)			29.7	0.87	8.509	58.7		0.8	3*
		# SAMP IN STATISTICS	10		10	9	10	10	6	9	5
		% SAMP (EXCLUDED)							25		5
**INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR	PPUT
				NH3-N			K'DAHL N				
				TOTAL	NO2-N	NO3-N	TOTAL	LEAD		P04	PHOSPHOR
				FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC	UNF.TOT.
				MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L
				AS N	AS N	AS N	AS N	AS PB	PH	AS P	AS P
SAMPLE	DATE	DATE	STREAM	WATER							
DATE	TIME	NUMBER	COND.	TEMP							
YYMMDD	LMT			DEG.C							
830125	1035	31804	6	1.0	0.250	0.042	4.600	0.850	0.030<	7.75	0.045
830324	1040	31824	6	1.0	0.060	0.025	5.200	0.900	0.030<	7.92	0.045
830424	1040	31834	6	1.0	0.060	0.021	5.700	1.600		8.00	0.018
830524	1055	31844	6	12.5	0.045	0.058	7.200	0.780		8.02	0.046
830627	1035	31854	6	26.0	0.035	0.081	1.730	1.000	0.030<	8.09	0.075
830725	1040	31864	6	26.0	0.060	0.036	1.050	0.860	0.030<	8.07	0.033
830824	1030	31874	6	25.0	0.020	0.035	2.700	0.800	0.030<	8.20	0.012
830919	1235	31884	6	25.0	0.070	0.063	3.800	0.850	0.003	7.93	0.086
831026	1040	31894	6	7.0	0.070	0.054	5.400	1.060	0.003<	7.97	0.059
831129	1050	31904			0.105	0.050	7.100	1.950	0.018	7.60	0.192

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

326

B.O.W./ SITE: CATFISH CREEK  
 SAMPLE POINT: AT ELGIN COUNTY ROAD NO 40 GLENCOLIN  
 STATION TYPE: RIVER

STATION ID: 16-0097-006-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: CATFISH CREEK

STORET CODE: 02  
 003  
 1570

LAT: 42 47 34.29 LONG: 080 55 53.50 U T M: 17 0505600.0 4737600.0 4 REGION: 01 DISTANCE: 34.761

*INTERIM TEST-NAME:		FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NN02FR NO2-N FIL.REAC	NN03FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR PO4 FIL.REAC	PPUT PHOSPHOR UNF.TOT.	
SAMPLE DATE	HOUR YYMMDD LMT	SAMPLE NUMBER	STREAM COND.	WATER TEMP DEG.C	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N	UNF.TOT. MG/L AS PB	PH	PO4 MG/L AS P	PHOSPHOR MG/L AS P
MAXIMUM				26.0	0.250	0.081	7.200	1.950	0.018	8.20	0.192	0.475
ARITH MEAN				13.8	0.077	0.046	4.448	1.065	0.010	7.95	0.061	0.162
GEOM MEAN				6.9	0.062	0.043	3.842	1.014		7.95	0.047	0.141
MINIMUM				1.0	0.020	0.021	1.050	0.780	0.003	7.60	0.012	0.089
STD DEV (GEOM *)				11.7	0.065	0.018	2.110	0.393		0.17	0.051	0.115
# SAMP IN STATISTICS				9	10	10	10	10	2	10	10	10
% SAMP (EXCLUDED)									75			

*INTERIM TEST-NAME:		PSAMF PSEUDOMN AERUG.	RSP RESIDUE PARTIC.	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB TURB'ITY FTU	ZNUT ZINC UNF.TOT. MG/L AS ZN
SAMPLE DATE	HOUR YYMMDD LMT	SAMPLE NUMBER	MF CNT /100ML	MF CNT /100ML	BCKGRD CNT /100ML	TURB'ITY FTU	UNF.TOT. MG/L AS ZN
830125	1035	31804	30AID	11.1	5600	9400	11.30
830324	1040	31824		24.1			20.00
830424	1040	31834		47.9			21.00
830524	1055	31844	4<	23.9	83000C	470000	22.00
830627	1035	31854	4<	54.5	900C	69000	46.00
830725	1040	31864	4<	19.0	5400C	29400	21.00
830824	1030	31874	4<	7.3	6100C	39000	8.90
830919	1235	31884		31.3			24.00
831026	1040	31894		15.5			16.70
831129	1050	31904		93.8			170.00
MAXIMUM			30	93.8	83000	470000	170.00
ARITH MEAN			30	32.8	20200	123360	36.09
GEOM MEAN				25.3	6727	51133	23.91
MINIMUM			30	7.3	900	9400	8.90
STD DEV (GEOM *)				26.2	5*	4*	48.10
# SAMP IN STATISTICS			1	10	5	5	10
% SAMP (EXCLUDED)			80				6
							25

## 1983 WATER QUALITY DATA REGION 1

327

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: 9TH LINE BAYHAM TOWN LINE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC010

STATION ID: 16-0109-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 47 49.82		LONG: 080 46 55.32		U T M: 17 0517825.0 4738100.0 4				REGION: 01		DISTANCE: 44.095	
*=INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	FECAL	FECAL
SAMPLE		SAMPLE	PROJECT	TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	COLIFORM	STREPCUS
DATE	HOUR	NUMBER	SUB-PROJ	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	MG/L
YYMMDD	LMT		CODE	AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
830126	1210	30001	0101	220.0	0.46	24.000	595.0	0.0100	12.4	40AID	140
830222	1405	30006	0101	206.0	1.36	20.000	550.0	0.0100	11.2	64	188
830314	1350	30013	0101	216.0	0.94	22.000	570.0	0.0100<	13.0	24	4<
830421	1410	30016	0101	214.0	0.79	19.500	565.0	0.0100	11.2	28	108
830510	1245	30037	0101	221.0	1.07	20.000	560.0	0.0100	10.6	48	4
830614	1215	30065	0101	213.0	0.85	21.000	550.0	0.0100	9.5	48	20
830712	1205	30069	0101	191.0	2.81	25.000	530.0	0.0100<	9.6	104	88
830809	1200	30073	0101	216.0	2.88	16.500	515.0	0.0100	7.9	1500>	
830929	1215	30077	0101	214.0	1.93	22.500	570.0	0.004	9.7		
831011	1130	30081	0101	217.0	0.31	23.500	570.0	0.003	9.8		
831115	1145	30085	0101	233.0	1.67	27.500	610.0	0.002	12.8		
831215	1135	30089	0101	179.0	1.42	21.500	493.0	0.004	12.2	820	2300
MAXIMUM		0.30		233.0	2.88	27.500	610.0	0.0100	13.0	820	2300
ARITH MEAN		0.30		211.7	1.37	21.917	556.5	0.007	10.8	147	407
GEOM MEAN				211.2	1.14	21.741	555.6		10.7		
MINIMUM		0.30		179.0	0.31	16.500	493.0	0.002	7.9	24	4
STD DEV (GEOM *)				14.2	0.83	2.883	32.4		1.6		
# SAMP IN STATISTICS		12		12	12	12	12	10	12	8	7
% SAMP (EXCLUDED)								16		11	12
*=INTERIM TEST-NAME:		FWFLOH	FWSTRC	FWTEMP	HGUT	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH
						NH3-N			K'DAHL N		
SAMPLE		STREAM		WATER	MERCURY	TOTAL	NO2-N	NO3-N	TOTAL	LEAD	
DATE	HOUR	FLOW	STREAM	TEMP	UNF.TOT.	FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.	
YYMMDD	LMT	M3	COND.	DEG.C	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	PH
830126	1210	30001	4	1.0		0.045	0.013	4.000	0.500	0.030<	8.07
830222	1405	30006	6	3.8		0.035	0.056	5.240	0.750	0.030<	8.14
830314	1350	30013	6	6.0		0.005	0.035	4.270	0.550	0.030<	8.32
830421	1410	30016	3	7.0		0.020	0.014	4.450	0.580	0.030<	8.28
830510	1245	30037	6	9.0		0.015	0.022	4.680	0.740	0.030<	8.16
830614	1215	30065	6	20.8		0.010	0.026	2.400	0.540	0.030<	8.26
830712	1205	30069	6	21.0		0.115	0.115	2.630	0.780	0.030<	8.33
830809	1200	30073	6	20.0		0.045	0.064	4.200	1.500	0.030<	8.15
830929	1215	30077	6	14.0	0.03	0.020	0.018	2.580	0.530	0.003<	8.29
831011	1130	30081	6	11.0		0.015	0.009	2.690	0.420	0.003<	8.20
831115	1145	30085	6	2.8		0.005<	0.015	2.700	0.940	0.003<	8.13
831215	1135	30089	6	1.0		0.050	0.019	4.630	0.700	0.003<	7.74

(CONT'D)



## 1983 WATER QUALITY DATA REGION 1

328

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: 9TH LINE BAYHAM TOWN LINE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC010

STATION ID: 16-0109-004-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 47 49.82 LONG: 080 46 55.32 U T M: 17 0517825.0 4738100.0 4 REGION: 01 DISTANCE: 44.095

*INTERIM TEST-NAME:		FNFLOW	FMSTRC	FNTMP	HGUT	NNHTR NH3-N	NNO2FR	NNO3FR	NNTKUR K'DAHL N	PBUT	PH
		STREAM FLOW		WATER TEMP	MERCURY UNF.TOT.	FIL.REAC MG/L	FIL.REAC MG/L	FIL.REAC MG/L	FIL.REAC MG/L	UNF.TOT. MG/L	LEAD UNF.TOT.
SAMPLE DATE	HOUR	SAMPLE NUMBER	M3 /S	STREAM COND.	DEG.C	AS HG	AS N	AS N	AS N	AS N	AS PB
YYMMDD	LMT										PH

		MAXIMUM	15.500		21.0	0.03	0.115	0.115	5.240	1.500	8.33
		ARITH MEAN	4.499		9.8	0.03	0.034	0.034	3.706	0.711	8.17
		GEOM MEAN	3.348		6.5			0.025	3.570	0.670	8.17
		MINIMUM	1.190		1.0	0.03	0.005	0.009	2.400	0.420	7.74
		STD DEV (GEOM *)	4.066		7.6			0.031	1.024	0.289	0.16
		# SAMP IN STATISTICS	12		12	1	11	12	12	12	12
		% SAMP (EXCLUDED)					8				

*INTERIM TEST-NAME:		PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF	TURB	ZNUT
		P04 FIL.REAC	PHOSPHOR UNF.TOT.	MF CNT	RESIDUE PARTIC.	MF CNT	BCKGRD CNT	TURB'ITY FTU	ZINC UNF.TOT.
SAMPLE DATE	HOUR	SAMPLE NUMBER	MG/L AS P	MG/L AS P	/100ML	/100ML	/100ML		MG/L AS ZN
YYMMDD	LMT								

		MAXIMUM	0.121	0.450	112	207.1	107000	570000	163.00	0.0400
		ARITH MEAN	0.027	0.092	62	37.2	13049	77964	25.77	0.016
		GEOM MEAN	0.011	0.065		22.0	1193	11351	14.38	
		MINIMUM	0.001	0.026	12	7.4	70	1080	3.60	0.006
		STD DEV (GEOM *)	0.036	0.116		55.5	8*	7*	43.77	
		# SAMP IN STATISTICS	12	12	2	12	9	9	12	10
		% SAMP (EXCLUDED)			77					16

## 1983 WATER QUALITY DATA REGION 1

329

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: AT HIGHWAY 19 SOUTHERN BRIDGE VIENNA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC004

STATION ID: 16-0109-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 40 35.47 LONG: 080 47 35.72 U T M: 17 0516940.0 4724700.0 4 REGION: 01 DISTANCE: 7.081

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	ASUT	CCNAUR CYANIDE AVAIL	CCNFUR CYANIDE FREE	CDUT	CLIDUR	COND25	CUUT	
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	SAMPLE DEPTH M	PROJECT SUB-PROJ CODE	ALK TOTAL MG/L AS CAC03	ARSENIC UNF.TOT. MG/L AS AS	UNF.REAC MG/L AS HCN	UNF.REAC MG/L AS HCN	CADMIUM UNF.TOT. MG/L AS CD	CHLORIDE UNF.REAC MG/L AS CL-	CONDUCT. 25C UMHO/CM AT 25 C	COPPER UNF.TOT. MG/L AS CU
830126	1130	30000	0.30	0101	220.0	0.001<	0.001<W		0.0020<	21.500	580.0	0.0100
830301		30007	0.30	0101	208.0	0.001<		0.001<W	0.0020<	18.000	530.0	0.0100
830313	1320	30012	0.30	0101	221.0	0.001<	0.001<W		0.0020<	19.500	565.0	0.0100<
830421	1335	30015	0.30	0101	217.0	0.001<	0.030		0.0020<	17.000	555.0	0.0200
830510	1155	30036	0.30	0101	217.0	0.001<	0.001<T		0.0020	16.500	540.0	0.0200
830614	1135	30064	0.30	0101	219.0	0.001<	0.001<W		0.0020<	17.000	540.0	0.0300
830712	1135	30068	0.30	0101		0.001	0.001<W					
830809	1110	30072	0.30	0101	221.0	0.001	0.002<T		0.0020	22.000	530.0	0.0200
830929	1145	30076	0.30	0101	215.0				0.0004	190.000	550.0	0.023
831011	1100	30080	0.30	0101	218.0	0.001<	0.001<W		0.0002<	19.000	550.0	0.010
831115	1115	30084	0.30	0101	228.0	0.001<	0.002		0.0002<	22.500	580.0	0.008
831215	1105	30088	0.30	0101	173.0	0.001<	0.001<T		0.0004	19.500	478.0	0.007
MAXIMUM			0.30		228.0	0.001	0.030	0.001	0.0020	190.000	580.0	0.0300
ARITH MEAN			0.30		214.3	0.001	0.004<A	0.001<A	0.0012	34.773	545.3	0.016
GEOM MEAN					213.8		0.002<A			23.581	544.6	
MINIMUM			0.30		173.0	0.001	0.001	0.001	0.0004	16.500	478.0	0.007
STD DEV (GEOM *)					14.5		0.009<A			51.524	28.3	
# SAMP IN STATISTICS			12		11	2	10	1	4	11	11	10
% SAMP (EXCLUDED)						81			63			9

*INTERIM TEST-NAME:		DO	FCHF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FNTMP	HGUT	NNHTFR NH3-N TOTAL	NNO2FR	NNO3FR	NNTKUR K'DAHL N TOTAL
SAMPLE DATE YYMMDD	HOUR LMT	SAMPLE NUMBER	DISOLVED OXYGEN MG/L AS O	MF CNT /100HL	MF CNT /100HL	STREAM COND.	WATER TEMP DEG.C	MERCURY UNF.TOT. UG/L AS HG	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N
830126	1130	30000	12.0	20AID	40AID	6	1.0	0.04<	0.065	0.015	3.200
830301		30007	11.4	120	152	6	5.0	0.02<	0.025	0.086	4.010
830313	1320	30012	12.4	48	4	6	5.2	0.01	0.005<	0.019	3.580
830421	1335	30015	10.6	24	84	6	7.2	0.02	0.020	0.013	3.600
830510	1155	30036	10.4	52	12	3	9.0	0.02<	0.045	0.021	3.180
830614	1135	30064	9.5	60	48	6	21.0	0.02<	0.005	0.013	2.200
830712	1135	30068						0.03<			
830809	1110	30072	7.5	1500>	700	6	20.7	0.02	0.015	0.030	3.000
830929	1145	30076	9.8			6	14.0	0.02	0.025	0.007	2.180
831011	1100	30080	10.0			6	11.3	0.01<	0.015	0.006	3.290
831115	1115	30084	12.8			6	3.0	0.01<	0.005<	0.009	2.500
831215	1105	30088	12.2	1800	4600	6	1.0	0.02	0.055	0.019	4.730

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

330

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: AT HIGHWAY 19 SOUTHERN BRIDGE VIENNA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC004

STATION ID: 16-0109-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 40 35.47 LONG: 080 47 35.72 U T M: 17 0516940.0 4724700.0 4 REGION: 01 DISTANCE: 7.081

*=INTERIM TEST-NAME:			DO	FCMF FECAL COLIFORM	FSMF FECAL STREPCUS	FWSTRC	FWTEMP	HGUT	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL
SAMPLE DATE	HR HOUR	SAMPLE NUMBER	DISOLVED OXYGEN MG/L AS O	CNT /100ML	CNT /100ML	STREAM COND.	WATER TEMP DEG.C	MERCURY UNF.TOT. UG/L AS HG	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	FIL.REAC MG/L AS N	UNF.REAC MG/L AS N
MAXIMUM			12.8	1800	4600		21.0	0.02	0.065	0.086	4.730	1.200
ARITH MEAN			10.8	303	705		8.9	0.02	0.030	0.022	3.134	0.729
GEOM MEAN			10.7		89		6.0		0.016		3.040	0.693
MINIMUM			7.5	20	4		1.0	0.01	0.005	0.006	2.180	0.430
STD DEV (GEOM *)			1.6		9*		7.1		0.022		0.816	0.242
# SAMP IN STATISTICS			11	7	8		11	5	9	11	11	11
% SAMP (EXCLUDED)				12				58	18			

*=INTERIM TEST-NAME:			PBUT	PH	PP04FR	PPUT	PSAMF PSEUDOMN AERUG.	PIPCBT	RSF	RSP	TCMF COLIFORM TOTAL	TCMFBK COLIFORM TOTAL MF
SAMPLE DATE	HR HOUR	SAMPLE NUMBER	LEAD UNF.TOT. MG/L AS PB	PH	PO4 FIL.REAC MG/L AS P	PHOSPHOR UNF.TOT. MG/L AS P	MF CNT /100ML	PCB TOTAL NG/L	RESIDUE FILTERED MG/L	RESIDUE PARTIC. MG/L	MF CNT /100ML	BCKGRD CNT /100ML
830126	1130	30000	0.030<	7.91	0.018	0.055	12	20<W	369.9	27.1		
830301		30007	0.030<	8.14	0.001	0.142	4<	20<W	366.1	108.9		
830313	1320	30012	0.030<	8.21	0.005	0.032	4<	20<W	352.8	21.0	80AID	670
830421	1335	30015	0.030<	8.18	0.030	0.134	4<	20<W	358.4	67.3		
830510	1155	30036	0.030<	8.03	0.001	0.103	4<	20<W	335.0	46.8		
830614	1135	30064	0.030<	8.30	0.001	0.090	4<	20<W	362.0	36.6		
830712	1135	30068						20<W				
830809	1110	30072	0.030<	8.15	0.070	0.445	40	20<W	410.2	296.6		
830929	1145	30076	0.003<	8.30	0.008	0.045		20<W	388.3	26.1		
831011	1100	30080	0.003<	8.12	0.015	0.039		20<W	351.9	11.8		
831115	1115	30084	0.003<	8.05	0.006	0.052			332.9	28.8		
831215	1105	30088	0.003<	7.61	0.065	0.245	16	20<W	346.0	174.6		
MAXIMUM				8.30	0.070	0.445	40	20	410.2	296.6	80	670
ARITH MEAN				8.09	0.020	0.126	23	20<A	361.2	76.9	80	670
GEOM MEAN				8.09	0.008	0.090		20<A	360.6	48.2		
MINIMUM				7.61	0.001	0.032	12	20	332.9	11.8	80	670
STD DEV (GEOM *)				0.20	0.025	0.123		0<A	22.6	87.3		
# SAMP IN STATISTICS				11	11	11	3	11	11	11	1	1
% SAMP (EXCLUDED)							62					

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

331

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: AT HIGHWAY 19 SOUTHERN BRIDGE VIENNA  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC004

STATION ID: 16-0109-005-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 40 35.47 LONG: 080 47 35.72 U T M: 17 0516940.0 4724700.0 4 REGION: 01 DISTANCE: 7.081

*INTERIM TEST-NAME:		TURB	ZNUT
			ZINC
SAMPLE			UNF.TOT.
DATE	HOUR	SAMPLE	TURB'ITY
YYMMDD	LMT	NUMBER	FTU
			MG/L
			AS ZN
830126	1130	30000	22.00
830301		30007	0.0200
830313	1320	30012	0.0100
830421	1335	30015	8.60
830510	1155	30036	0.0100<
830614	1135	30064	36.00
830809	1110	30072	0.0400
830929	1145	30076	33.00
831011	1100	30080	0.0200
831115	1115	30084	25.00
831215	1105	30088	0.0100<
MAXIMUM		210.00	0.078
ARITH MEAN		45.88	0.028
GEOM MEAN		28.12	
MINIMUM		8.60	0.006
STD DEV (GEOM *)		60.79	
# SAMP IN STATISTICS		10	9
% SAMP (EXCLUDED)			18

## 1983 WATER QUALITY DATA REGION 1

332

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: AT NORWICH RD.6 E.OF BASE LINE RD.  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC017

STATION ID: 16-0109-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 57 58.39 LONG: 080 32 33.51

U T M: 17 0537300.0 4756950.0 4

REGION: 01

DISTANCE: 78.373

*INTERIM TEST-NAME:		FWSADP	FGPROJ	ALKT	BOD5	CLIDUR	COND25	CUUT	DO	FCMF	FSMF
					BOD					FECAL	STREPCUS
				ALK	5 DAY	CHLORIDE	CONDUCT.	COPPER	DISOLVED	COLIFORM	STREPCUS
				TOTAL	TOT.DEM.	UNF.REAC	25C	UNF.TOT.	OXYGEN	MF	MF
				MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L	CNT	CNT
				AS CAC03	AS O	AS CL-	AT 25 C	AS CU	AS O	/100ML	/100ML
SAMPLE		SAMPLE									
DATE HOUR		DEPTH	PROJECT								
YYMMDD LMT		M	SUB-PROJ								
			CODE								
830126 1340	30002	0.30	0101	238.0	0.62	26.500	640.0	0.0100	11.9	120	30AID
830222 1320	30005	0.30	0101	213.0	1.91	18.500	555.0	0.0100	12.2	136	52
830314 1445	30014	0.30	0101	215.0	1.44	21.500	570.0	0.0100<	13.0	76	12
830510 1330	30038	0.30	0101	223.0	1.10	18.000	535.0	0.0100<	10.6	72	16
830614 1345	30066	0.30	0101	220.0	1.21	15.000	550.0		8.0	188	68
830712 1255	30070	0.30	0101	200.0	1.71	15.000	520.0	0.0100<	8.7	276	168
830809 1320	30074	0.30	0101	218.0	2.70	16.000	530.0	0.0100<	6.3	1500>	1500>
830929 1410	30078	0.30	0101	215.0	1.94	14.500	550.0	0.003	8.3		
831011 1315	30082	0.30	0101	220.0	0.74	15.500	560.0	0.003	8.8		
831115 1340	30086	0.30	0101	248.0	2.16	24.500	630.0	0.004	13.8		
831215 1135	30090	0.30	0101	193.0	1.15	20.500	530.0	0.005	12.8	610	1500
	MAXIMUM	0.30		248.0	2.70	26.500	640.0	0.0100	13.8	610	1500
	ARITH MEAN	0.30		218.5	1.52	18.682	560.9	0.006	10.4	211	264
	GEOM MEAN			218.0	1.39	18.300	559.7		10.1		
	MINIMUM	0.30		193.0	0.62	14.500	520.0	0.003	6.3	72	12
	STD DEV (GEOM *)			15.2	0.63	4.107	39.5		2.5		
	# SAMP IN STATISTICS	11		11	11	11	11	6	11	7	7
	% SAMP (EXCLUDED)							40		12	12
*INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR	NN02FR	NN03FR	NNTKUR	PBUT	PH	PP04FR
					NH3-N			K'DAHL N			
					TOTAL	NO2-N	NO3-N	TOTAL	LEAD		PO4
					FIL.REAC	FIL.REAC	FIL.REAC	UNF.REAC	UNF.TOT.		FIL.REAC
					MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
					AS N	AS N	AS N	AS N	AS PB	PH	AS P
SAMPLE		STREAM									
DATE HOUR		FLOW	COND.	TEMP							
YYMMDD LMT		M3 /S		DEG.C							
830126 1340	30002	0.660	6	0.8	0.035	0.015	4.200	0.320	0.030<	7.97	0.014
830222 1320	30005	1.480	6	2.8	0.025	0.050	4.450	0.770	0.030<	7.96	0.001
830314 1445	30014	1.020	6	6.3	0.020	0.017	3.680	0.710	0.030<	8.18	0.008
830510 1330	30038	1.560	6	9.2	0.030	0.025	3.700	0.860	0.030<	8.02	0.001
830614 1345	30066	0.562	6	19.2	0.015	0.030	2.400	0.660		8.11	0.001
830712 1255	30070	0.353	6	18.2	0.020	0.020	2.600	0.370	0.030<	8.07	0.019
830809 1320	30074	3.090	6	20.0	0.050	0.073	3.000	1.050	0.030<	7.89	0.074
830929 1410	30078	0.422	6	14.0	0.005	0.008	2.090	0.450	0.005	8.07	0.023
831011 1315	30082	0.415	6	10.8	0.005	0.009	2.140	0.560	0.003<	8.07	0.019
831115 1340	30086	0.749	6	3.8	0.005<	0.013	2.500	0.910	0.003<	8.01	0.002
831215 1135	30090	3.790	6	1.5	0.065	0.019	4.630	0.680	0.003<	7.70	0.086

(CONTD)

## 1983 WATER QUALITY DATA REGION 1

333

B.O.W./ SITE: BIG OTTER CREEK  
 SAMPLE POINT: AT NORMICH RD.6 E.OF BASE LINE RD.  
 STATION TYPE: RIVER FLOW GAUGE FED 02GC017

STATION ID: 16-0109-007-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: BIG OTTER CREEK

STORET CODE: 02  
 003  
 1390

LAT: 42 57 58.39 LONG: 080 32 33.51

U T M: 17 0537300.0 4756950.0 4

REGION: 01

DISTANCE: 78.373

*=INTERIM TEST-NAME:		FWFLOW	FWSTRC	FWTEMP	NNHTFR NH3-N TOTAL	NNO2FR NO2-N FIL.REAC	NNO3FR NO3-N FIL.REAC	NNTKUR K'DAHL N TOTAL	PBUT LEAD UNF.TOT.	PH	PP04FR PO4 FIL.REAC
SAMPLE DATE	HOUR YYMMDD LMT	SAMPLE NUMBER	M3 /S	STREAM COND.	WATER TEMP DEG.C	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS N	MG/L AS PB	MG/L AS P
		MAXIMUM	3.790		20.0	0.065	0.073	4.630	1.050	0.005	0.086
		ARITH MEAN	1.282		9.7	0.027	0.025	3.217	0.667	0.005	0.023
		GEOM MEAN	0.934		6.4		0.020	3.092	0.628		0.008
		MINIMUM	0.353		0.8	0.005	0.008	2.090	0.320	0.005	0.001
		STD DEV (GEOM *)	1.153		7.3		0.020	0.947	0.229		0.030
		# SAMP IN STATISTICS	11		11	10	11	11	11	1	11
		% SAMP (EXCLUDED)				9				90	

*=INTERIM TEST-NAME:		PPUT	PSAMF PSEUDOHN AERUG.	RSP	TCHF COLIFORM TOTAL	TCHFBK COLIFORM TOTAL MF	TURB	ZNUT ZINC UNF.TOT.
SAMPLE DATE	HOUR YYMMDD LMT	SAMPLE NUMBER	PHOSPHOR UNF.TOT. MG/L AS P	RESIDUE PARTIC. MG/L	MF CNT /100ML	BCKGRD CNT /100ML	TURB*ITY FTU	MG/L AS ZN
830126	1340	30002	0.032	4<	6.9	370	2500	5.30
830222	1320	30005	0.070	4	14.7	2300	3700	10.50
830314	1445	30014	0.036	4<	5.8	240	2700	4.40
830510	1330	30038	0.068	4<	15.2	3100	15000	15.90
830614	1345	30066	0.066	4<	18.0	2400	17800	12.90
830712	1255	30070	0.040	4<	6.9	2000C	33000	6.90
830809	1320	30074	0.185	296	55.4	17300C	76000	42.00
830929	1410	30078	0.044		9.3			4.90
831011	1315	30082	0.046		4.2			3.40
831115	1340	30086	0.057		8.3			5.60
831215	1135	30090	0.097	4<	17.7	8400C	21600	13.70
		MAXIMUM	0.185	296	55.4	17300	76000	42.00
		ARITH MEAN	0.067	150	14.8	4514	21537	11.41
		GEOM MEAN	0.059		11.2	2141	11742	8.58
		MINIMUM	0.032	4	4.2	240	2500	3.40
		STD DEV (GEOM *)	0.043		14.3	4*	4*	11.01
		# SAMP IN STATISTICS	11	2	11	8	8	11
		% SAMP (EXCLUDED)		75				7
								30

## 1983 WATER QUALITY DATA REGION 1

334

B.O.W./ SITE: ALDER CREEK  
 SAMPLE POINT: AT FIRST CONC ROAD SOUTH OF NEW DUNDEE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA030

STATION ID: 16-0184-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: GRAND RIVER

STORET CODE: 02  
 003  
 0150

LAT: 43 20 34.91 LONG: 080 31 54.49

U T M: 17 0537950.0 4798800.0 4

REGION: 01

DISTANCE: 179.920

*=INTERIM	TEST-NAME:	FWSADP	FGPROJ	ALKT	BOD5	CAUR	CLIDUR	COD	COND25	DO	DOC
				ALK	BOD						CARBON
SAMPLE		SAMPLE	PROJECT	TOTAL	5 DAY	CALCIUM	CHLORIDE	CHEM. OX	CONDUCT.	DISOLVED	DISOLVED
DATE	HOURL	DEPTH	SUB-PROJ	MG/L	TOT.DEM.	UNF.REAC	UNF.REAC	DEMAND	25C	OXYGEN	ORGANIC
YYMMDD	LNT	NUMBER	CODE	AS CAC03	MG/L	MG/L	MG/L	MG/L	UMHO/CM	MG/L	MG/L
				AS	AS O	AS CA	AS CL-	AS O	AT 25 C	AS O	AS C
830104	1208	29038	0101	259.9		115.0	31.10	9.1	812.0	13.00	2.6
830204	1208	29079	0101	111.2	4.27	49.3	18.80	9.8	402.0	13.40	4.1
830301	1207	29120	0101	234.3	1.34	110.0	28.30	24.3	763.0	13.60	2.7
830408	1200	29161	0101	246.7	1.66	105.0	32.90	17.3	696.0	15.80	2.8
830503	1425	29202	0101	187.9	3.05	65.2	21.20	30.0	814.0	9.00	5.8
830616	1205	29243	0101	214.0	2.46	94.2	30.80	6.1<T	719.0	14.50	3.3
830706	1150	29284	0101	230.8	1.42	93.3	33.40	12.9	742.0	13.20	3.8
830803	1157	29325	0101	193.4	2.01	94.8	34.70	29.8	705.0	10.10	3.0
830914	1150	29366	0101	214.3	1.67	91.0	41.20	-0.8<T	785.0	12.10	3.3
831013	1125	29407	0101	198.9	3.18	78.8	32.66	11.6	660.0	10.80	3.6
831103	1100	29448	0101	209.2	2.56	95.7	31.27	11.4	724.0	11.20	3.1
831205	1130	29489	0101	275.9	1.03	123.0	36.74		860.0	12.10	2.9
		MAXIMUM	0.30	275.9	4.27	123.0	41.20	30.0	860.0	15.80	5.8
		ARITH MEAN	0.30	214.7	2.24	92.9	31.09	14.7<A	723.5	12.40	3.4
		GEOM MEAN		210.0	2.06	90.5	30.46		712.5	12.26	3.3
		MINIMUM	0.30	111.2	1.03	49.3	18.80	-0.8	402.0	9.00	2.6
		STD DEV (GEOM %)		42.2	0.97	20.7	6.14		116.3	1.92	0.9
# SAMP IN STATISTICS		12		12	11	12	12	11	12	12	12
% SAMP (EXCLUDED)											

*=INTERIM		TEST-NAME:	FCMF FECAL COLIFORM	FEUT IRON UNF. TOT.	FSMF FECAL STREPCUS	FWFLOW STREAM FLOW	FWSTRC	FWTEMP WATER TEMP	KKUR POTASSIM UNF. REAC	MGUR MAGNESIM FIL. REAC	NAUR SODIUM UNF. REAC	NNHTFR NH3-N TOTAL FIL. REAC
SAMPLE DATE YYMMDD	HOURL LMT	SAMPLE NUMBER	MF CNT /100ML	MG/L AS FE	MF CNT /100ML	M3 /S	STREAM COND.	DEG.C	MG/L AS K	MG/L AS MG	MG/L AS NA	MG/L AS N
830104	1208	29038	10<=>	0.295	30<=>	0.143	8 6	3.0	3.30	26.30	19.30	0.002<T
830204	1208	29079	2200	1.690	1500>	0.423	8 6	1.0	4.06	9.46	11.20	0.016
830301	1207	29120	20<	0.430	380	0.167	8	5.0	3.46	23.80	17.80	0.004<T
830408	1200	29161	10<	0.255	120	0.273	8 6	9.5	3.36	23.40	17.20	0.018
830503	1425	29202	3700	5.350	6000	0.968	3	11.5	5.02	15.30	14.90	0.010
830616	1205	29243	510	0.220	340	0.086	8	21.5	2.80	26.90	21.30	0.012
830706	1150	29284	500	0.255	140<=>	0.111	5 7	19.0	3.30	26.00	22.00	0.008
830803	1157	29325	730	0.260	610	0.071	7 5	21.0	3.10	26.00	22.10	0.008
830914	1150	29366	40<=>	0.155	40<=>	0.047	8	15.0	3.14	26.40	30.70	0.078
831013	1125	29407	80<=>	0.255	120	0.173	9	14.5	3.30	24.80	19.80	0.084
831103	1100	29448	190	0.135	430	0.134	9	9.0	3.62	25.80	19.60	0.072
831205	1130	29489	30<=>	0.160	60<=>	0.136	9	4.0	3.78	26.20	20.90	0.158

(CONT'D)

## 1983 WATER QUALITY DATA REGION 1

335

B.O.W./ SITE: ALDER CREEK  
 SAMPLE POINT: AT FIRST CONC ROAD SOUTH OF NEW DUNDEE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA030

STATION ID: 16-0184-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: GRAND RIVER

STORET CODE: 02  
 003  
 0150

LAT: 43 20 34.91 LONG: 080 31 54.49 U T M: 17 0537950.0 4798800.0 4 REGION: 01 DISTANCE: 179.920

*INTERIM TEST-NAME:		FCMF FECAL COLIFORM MF CNT /100ML	FEUT IRON UNF.TOT. MG/L AS FE	FSMF FECAL STREPCUS MF CNT /100ML	FWFLOW STREAM FLOW M3 /S	FWSTRC STREAM COND.	FWTEMP WATER TEMP DEG.C	KKUR POTASSIM UNF.REAC MG/L AS K	MGUR MAGNESIM FIL.REAC MG/L AS MG	NAUR SODIUM UNF.REAC MG/L AS NA	NNHTFR NH3-N TOTAL FIL.REAC MG/L AS N
MAXIMUM		3700	5.350	6000	0.968		21.5	5.02	26.90	30.70	0.158
ARITH MEAN		799	0.788	752	0.228		11.2	3.52	23.36	19.73	0.039<A
GEOM MEAN			0.352		0.159		8.3	3.48	22.53	19.22	0.018<A
MINIMUM		10	0.135	30	0.047		1.0	2.80	9.46	11.20	0.002
STD DEV (GEOM #)			1.498		0.254		7.1	0.57	5.38	4.68	0.048<A
# SAMP IN STATISTICS		10	12	11	12		12	12	12	12	12
% SAMP (EXCLUDED)		16		8							

*INTERIM TEST-NAME:		NNOTFR NO2+NO3N FIL.REAC MG/L AS N	NNO2FR NO2-N FIL.REAC MG/L AS N	NNO3FR NO3-N FIL.REAC MG/L AS N	NNTKUR K'DAHL N TOTAL UNF.REAC MG/L AS N	PH	PHNOL PHENOLS UNF-REAC UG/L PHENOL	PP04FR P04 FIL.REAC MG/L AS P	PPUT PHOSPHOR UNF.TOT. MG/L AS P	PSAMF PSEUDONH AERUG. MF CNT /100ML	PSANFB PSEUDONH AERUG. MF BKGD CNT /100ML
830104	1208	29038	6.000	0.1000	5.900	0.380	8.25	0.6<T		4<	16
830204	1208	29079	3.850	0.0050	3.840	1.010	7.45	1.0	0.2150	0.360	2000
830301	1207	29120	6.250	0.0690	6.180	0.490	8.22	0.2<T	0.1200	0.152	10<=>
830408	1200	29161	6.660	0.0670	6.600	0.560	8.45	-0.8<T	0.1020	0.158	10<
830503	1425	29202	4.760	0.0130	4.750	1.800	7.68	0.4<T	0.1200	0.410	80<=>
830616	1205	29243	4.150	0.1950	3.960	0.660	8.23	0.2<T	0.0550	0.107	10<
830706	1150	29284	4.140	0.0370	4.100	0.560	8.42	1.6	0.0980	0.136	140
830803	1157	29325	2.430	0.0695	2.360	0.460	8.03	0.4<T	0.0820	0.166	16
830914	1150	29366	2.870	0.1000	2.770	0.730	8.16	0.2<W	0.0600	0.190	4<
831013	1125	29407	3.820	0.0530	3.770	1.060	8.16	0.8	0.0070	0.119	4
831103	1100	29448	5.050	0.0380	5.010	0.750	8.26	0.2<T	0.0040	0.070	10<
831205	1130	29489	6.510	0.0635	6.450	0.600	8.24	0.8		0.093	10<
MAXIMUM		6.660	0.1950	6.600	1.800	8.45	1.6	0.2150	0.410	140	2000
ARITH MEAN		4.707	0.0675	4.641	0.755	8.13	0.5<A	0.0863	0.178	54	321
GEOM MEAN		4.500	0.0490	4.428	0.688	8.12		0.0546	0.155		
MINIMUM		2.430	0.0050	2.360	0.380	7.45	-0.8	0.0040	0.070	4	8
STD DEV (GEOM #)		1.413	0.0498	1.417	0.388	0.29		0.0614	0.108		
# SAMP IN STATISTICS		12	12	12	12	12	12	10	11	5	9
% SAMP (EXCLUDED)										58	25

( CONTD )



## 1983 WATER QUALITY DATA REGION 1

336

B.O.W./ SITE: ALDER CREEK  
 SAMPLE POINT: AT FIRST CONC ROAD SOUTH OF NEW DUNDEE  
 STATION TYPE: RIVER FLOW GAUGE FED 02GA030

STATION ID: 16-0184-038-02

MAJOR BASIN: GREAT LAKES  
 MINOR BASIN: LAKE ERIE  
 TERM STREAM: GRAND RIVER

STORET CODE: 02  
 003  
 0150

LAT: 43 20 34.91 LONG: 080 31 54.49 U T M: 17 0537950.0 4798800.0 4 REGION: 01 DISTANCE: 179.920

*INTERIM TEST-NAME:		RSF	RSP	SS04UR	TCMF	TCMFBK
					COLIFORM	COLIFORM
					TOTAL	TOTAL MF
SAMPLE		RESIDUE	RESIDUE	SULPHATE	HF	BCKGRD
DATE	HR	DATE	HR	UNF. REAC	CNT	CNT
YYMMDD	LMT	YYMMDD	LMT	MG/L	/100ML	/100ML
		SAMPLE	NUMBER	AS S04		
			MG/L			
830104	1208	29038	595.0	5.220	138.00	660<=> 5600
830204	1208	29079	253.0	35.000	52.05	5300<=> 160000
830301	1207	29120	530.0	25.600	118.95	1600<=> 116000
830408	1200	29161	485.0	11.400	89.60	60<=> 4800
830503	1425	29202	479.0	111.000	41.16	11000 82000
830616	1205	29243	541.0	8.100	138.50	4100<=> 46000
830706	1150	29284	558.0	6.500	135.60	600<=> 24000
830803	1157	29325	516.0	13.500	145.25	9000<=> 120000
830914	1150	29366	584.0	5.900	146.95	40<=> 100<=>
831013	1125	29407	472.0	15.800	114.40	1900<=> 54000
831103	1100	29448	483.0	7.480	132.20	1000 8600
831205	1130	29489	537.0	5.750	110.10	660<=> 9400
MAXIMUM		595.0	111.000	146.95	11000	160000
ARITH MEAN		502.7	20.937	113.56	2993	52542
GEOM MEAN		493.1	12.655	106.39	1125	19106
MINIMUM		253.0	5.220	41.16	40	100
STD DEV (GEOM *)		88.6	29.790	35.44	6*	8*
# SAMP IN STATISTICS		12	12	12	12	12
% SAMP (EXCLUDED)						

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. PAGE INDEX NO.
AUSABLE RIVER	AUSABLE RIVER	AT TOWNLINE DNSTR.FROM CENTRALIA BASE	120.698	08-0022-011-02	4 F-01 175
	AUSABLE RIVER	AT HIGHWAY 21 GRAND BEND	0.805	08-0022-013-02	4 H-01 179
	AUSABLE RIVER	AT FIRST CONC.WEST OF HIGHWAY 4 EXETER	134.377	08-0022-016-02	4 I-01 181
	AUSABLE RIVER	AT MORRISON DAM EAST OF EXETER	136.630	08-0022-017-02	4 J-01 183
	DECKER CREEK	NEAR BRICK YARD, THEDFORD	10.300	08-0022-002-02	4 C-01 169
	HENSALL CREEK	AT CONCESSION ROAD 2, WEST OF HENSALL	139.204	08-0022-007-02	4 D-01 171
	LITTLE AUSABLE RIVER	AT BRIDGE, TWP LINE WEST OF LUCAN	109.915	08-0022-010-02	4 E-01 173
	PARKHILL CREEK	RD.BETWEEN LOTS 15&16 WEST OF PARKHILL	19.955	08-0022-012-02	4 G-01 177
AUSABLE RIVER CUT	THE CUT AUSABLE RIVER	AT LAMPTON CO.ROAD NO.18	12.069	08-0021-002-02	4 B-01 159
BAYFIELD RIVER	BAYFIELD RIVER	FIRST CONCESSION DOWNSTREAM FROM CLINTON	21.243	08-0040-006-02	4 K-01 185
	BAYFIELD RIVER	AT HURON COUNTY ROAD 31 NORTH OF VARNA	14.162	08-0040-008-02	4 L-01 187
	BAYFIELD RIVER	AT FIRST CONCESSION WEST OF SEAFORTH	45.382	08-0040-009-02	4 M-01 189
	SILVER CREEK	HWY 8,SEAFORTH	48.430	08-0040-011-02	4 A-02 191
BEAVER RIVER	BEAVER RIVER	AT RAILROAD BRIDGE THORNBURY	0.322	03-0036-002-02	2 E-01 11
	BEAVER RIVER	AT GREY COUNTY ROAD NO 2 FEVERSHAM	56.969	03-0036-006-02	2 G-01 15
	BEAVER RIVER	AT COUNTY ROAD NO.10 OSPREY TOWNSHIP	59.061	03-0036-007-02	2 H-01 17
	BEAVER RIVER	AT COUNTY ROAD NO.8 OSPREY TOWNSHIP	58.257	03-0036-008-02	2 I-01 19
	BEAVER RIVER	AT COUNTY ROAD NO.30 SOUTH OF KIMBERLEY	37.175	03-0036-009-02	2 J-01 21
	BOYNE RIVER	1ST.BRIDGE DNSTR.FROM HWY.10 FLESHERTON	44.417	03-0036-005-02	2 F-01 13
BELLE RIVER	BELLE RIVER	AT FIRST ROAD SOUTH OF HIGHWAY 401	9.978	04-0007-002-02	3 C-01 27
BIG CREEK	BIG CREEK	AT MALDEN TWP.CONC.2-3	7.911	16-0001-002-02	6 A-01 286
BIG OTTER CREEK	BIG OTTER CREEK	9TH LINE BAYHAM TOWN LINE	44.095	16-0109-004-02	6 I-02 327
	BIG OTTER CREEK	AT HIGHWAY 19 SOUTHERN BRIDGE VIENNA	7.081	16-0109-005-02	6 J-02 329
	BIG OTTER CREEK	AT NORMICH RD.6 E.OF BASE LINE RD.	78.373	16-0109-007-02	6 K-02 332

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. INDEX	PAGE NO.
BIGHEAD RIVER	BIGHEAD RIVER	AT CONC ROAD 8 AND 9 SOUTH OF OXMEAD	12.713	03-0030-002-02	2 D-01	9
BROCK CREEK	BROCK CREEK	AT MIDDLE ST.3MILES S.OF WEST LORNE	5.793	16-0066-001-02	6 J-01	303
CANARD RIVER	CANARD RIVER	HWY.18 2 MILES SOUTH OF RIVER CANARD	0.805	10-0002-001-02	5 B-01	282
	CANARD RIVER	2 MILES SOUTH OF LUKERVILLE	12.070	10-0002-002-02	5 C-01	284
CATFISH CREEK	CATFISH CREEK	AT CONC ROAD 2 MILES EAST OF SPARTA	5.150	16-0097-003-02	6 F-02	321
	CATFISH CREEK	AT HIGHWAY NO 3 WEST OF ORWELL	24.944	16-0097-005-02	6 G-02	323
	CATFISH CREEK	AT ELGIN COUNTY ROAD NO 40 GLENCOLIN	34.761	16-0097-006-02	6 H-02	325
CEDAR CREEK	CEDAR CREEK	AT HIGHWAY NO. 18	4.828	16-0018-002-02	6 B-01	288
GRAND RIVER	ALDER CREEK	AT FIRST CONC ROAD SOUTH OF NEW DUNDEE	179.920	16-0184-038-02	6 L-02	334
HICKORY CREEK	HICKORY CREEK	AT PLYMPTON TWP.RD.NO.14 DNSTR.OF FOREST	8.529	08-0010-001-02	4 A-01	157
INDIAN CREEK	INDIAN CREEK	1 KM SOUTH OF GUILDS	3.680	16-0050-002-02	6 G-01	298
KETTLE CREEK	BEAVER CREEK	AT POND OUTLET COMMUNITY OF UNION	7.403	16-0087-006-02	6 M-01	309
	DODD CREEK	FIRST CONCESSION NORTH OF HIGHWAY 3	36.370	16-0087-004-02	6 L-01	307
	KETTLE CREEK	FIRST CONCESSION SOUTH WEST OF BELMONT	44.417	16-0087-007-02	6 A-02	311
	KETTLE CREEK	FIRST BRIDGE ABOVE PORT STANLEY	4.828	16-0087-010-02	6 B-02	313
	KETTLE CREEK	AT ELGIN COUNTY ROAD 45	17.059	16-0087-012-02	6 C-02	315
	KETTLE CREEK	AT COUNTY ROAD NO 31 NORTH OF ST THOMAS	29.933	16-0087-015-02	6 D-02	317
	KETTLE CREEK	AT ELGIN CO.ROAD NO.16 ST.THOMAS	21.564	16-0087-016-02	6 E-02	319
LITTLE RIVER	LITTLE RIVER	AT RIVERSIDE DRIVE WINDSOR	0.161	04-0001-001-02	3 A-01	23
LITTLE SAUBLE RIVER	LITTLE SAUBLE RIVER	AT INVERHURON PROVINCIAL PARK MOE SNA1	1.931	08-0113-001-02	4 D-03	225
LUCKNOW RIVER	LUCKNOW RIVER	HIGHWAY 21, PORT ALBERT	1.287	08-0076-001-02	4 B-03	221
	LUCKNOW RIVER	CANNING STREET, VILLAGE OF LUCKNOW	25.749	08-0076-002-02	4 C-03	223
MAITLAND RIVER	BELGRAVE CREEK	3RD.CONC.W.OF HWY.NO.4 S.OF CO.RD.NO.20	59.222	08-0056-030-02	4 M-02	217
	BLYTH BROOK	AT SIDE ROAD, WEST OF BLYTH	51.015	08-0056-002-02	4 B-02	193

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. INDEX	PAGE NO.
MAITLAND RIVER	DRAINAGE DITCH	AT SIDE RD.3-4 1MI.WEST OF MILVERTON	153.688	08-0056-010-02	4 G-02	204
	LITTLE MAITLAND RIVER	HWY.23 3 MILES S-W OF PALMERSTON	131.963	08-0056-006-02	4 E-02	200
	MAITLAND RIVER	HWY 86 2 MILES N-W OF WINGHAM	77.246	08-0056-003-02	4 C-02	195
	MAITLAND RIVER	ONE MILE NORTH EAST OF WROXETER	100.420	08-0056-004-02	4 D-02	198
	MAITLAND RIVER	AT HIGHWAY 21 GODERICH	2.736	08-0056-023-83	4 K-02	212
	MIDDLE MAITLAND RIVER	HAMLET OF TROMBRIDGE	140.975	08-0056-009-02	4 F-02	202
	MIDDLE MAITLAND RIVER	HIGHWAY 23, DOWNSTREAM FROM LISTOWEL	147.090	08-0056-013-02	4 H-02	206
	MIDDLE MAITLAND RIVER	HALF MILE NORTH EAST OF LISTOWEL	159.803	08-0056-014-02	4 I-02	208
	MIDDLE MAITLAND RIVER	0.7 MILES OF ETHEL	127.135	08-0056-026-02	4 L-02	215
	MIDDLE MAITLAND RIVER	AT COUNTY ROAD NO.16 WEST OF BRUSSELS	104.283	08-0056-031-02	4 A-03	219
	SOUTH MAITLAND RIVER	HIGHWAY 4, LONDESBOROUGH	43.451	08-0056-015-02	4 J-02	210
MUDDY CREEK	MUDDY CREEK	AT FIRST BRIDGE ABOVE LAKE ERIE	0.322	16-0032-001-02	6 D-01	292
POTTAWATOMI RIVER	POTTAWATOMI RIVER	AT 14TH STREET BRIDGE OHEN SOUND	1.609	03-0015-002-02	2 A-01	1
PUCE RIVER	PUCE RIVER	AT ESSEX COUNTY ROAD 42 SOUTH OF PUCE	3.380	04-0005-003-02	3 B-01	25
RONDEAU BAY	COLEMAN DRAIN	KENT CO.RD.11, 1.8 KILO WEST OF HWY51,	1.600	16-0051-001-02	6 H-01	299
	INDIAN CREEK	KENT CO.RD.11,3.4 KILO W.OF HWY 51	2.400	16-0050-001-02	6 F-01	296
	JOHN CLARK DRAIN	BISNETT RD,1.1 KILO W.OF KENT CO.RD.11	3.360	16-0044-001-02	6 E-01	294
RUSCOM RIVER	RUSCOM RIVER	1 MILE EAST OF EXIT 6 ON HIGHWAY 401	9.978	04-0010-002-02	3 D-01	29
SAUBLE RIVER	ALBEMARBLE BROOK	AT HIGHWAY NO 6 NEAR MAR MOE SW A3	25.105	08-0135-004-02	4 K-04	273
	SAUBLE RIVER	AT BRIDGE FIRST CONCESSION NORTH OF TARA	44.899	08-0135-002-02	4 I-04	269
	SAUBLE RIVER	AT SAUBLE FALLS	3.219	08-0135-003-02	4 J-04	271
SAUGEEEN RIVER	NORTH SAUGEEEN RIVER	AT ELDERSLIE TOWNSHIP ROAD 25 AND 26	55.360	08-0123-009-02	4 K-03	241
	OTTER CREEK	AT BRUCE COUNTY ROAD 16 NORTH OF MILD MAY	87.868	08-0123-010-02	4 L-03	243
	PEARL CREEK	AT CONCESSION ROAD 12 AND 13 BRANT TWP.	56.165	08-0123-042-02	4 D-04	259

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. INDEX	PAGE NO.
SAUGEEN RIVER	PEARL CREEK	AT 10TH CONC BRANT TOWNSHIP	60.671	08-0123-045-02	4 G-04	265
	ROCKY SAUGEEN RIVER	AT CONCESSION ROAD SOUTHWEST OF MARKDALE	143.389	08-0123-006-02	4 I-03	236
	SAUGEEN RIVER	YONGE STREET, TOWN OF WALKERTON	76.603	08-0123-002-02	4 E-03	228
	SAUGEEN RIVER	HIGHWAY 4, HANOVER	94.627	08-0123-003-02	4 F-03	230
	SAUGEEN RIVER	HIGHWAY 4, TOWN OF DURHAM	125.847	08-0123-005-02	4 H-03	234
	SAUGEEN RIVER	AT TOWNSHIP ROAD, DOWNSTREAM OF PAISLEY	35.083	08-0123-007-02	4 J-03	239
	SAUGEEN RIVER	DURHAM CONSERVATION AREA	131.158	08-0123-015-02	4 M-03	245
	SAUGEEN RIVER	BRUCE CO ROAD 3, NORTH OF BURGOWNE SR-6	11.909	08-0123-030-82	4 A-04	248
	SAUGEEN RIVER	AT CONC.ROAD 2.5 MILES EAST OF CARGILL	63.889	08-0123-038-02	4 B-04	254
	SAUGEEN RIVER	AT CONC.ROAD 4 AND 5 SAUGEEN TOWNSHIP	27.358	08-0123-043-02	4 E-04	261
	SOUTH SAUGEEN RIVER	AT 7TH.AVE SOUTH OF HANOVER	96.880	08-0123-046-02	4 H-04	267
	TEESWATER RIVER	DOWNSTREAM FROM DAM, WEST OF TEESWATER	99.938	08-0123-004-02	4 G-03	232
	TEESWATER RIVER	AT COUNTY ROAD 1	39.589	08-0123-039-02	4 C-04	257
	TEESWATER RIVER	AT CHEPSTON	67.591	08-0123-044-02	4 F-04	263
SIXTEEN MILE CREEK	SIXTEEN MILE CREEK	AT BACK STREET, RODNEY	8.047	16-0063-001-02	6 I-01	301
STOKES RIVER	STOKES RIVER	2ND.BRIDGE UPSTR.FROM MOUTH STOKES BAY	1.127	08-0143-001-02	4 L-04	275
	STOKES RIVER	AT HIGHWAY NO.6	6.276	08-0143-002-02	4 M-04	277
STURGEON RIVER	STURGEON RIVER	AT CO.RD.20 4 MILES S-E OF LEAMINGTON	3.058	16-0027-001-02	6 C-01	290
SYDENHAM RIVER	BEAR CREEK	AT FIRST CONCESSION WEST OF PETROLIA	62.441	04-0027-004-02	3 J-04	137
	BEAR CREEK	AT TOWNSHIP LINE N-E OF AVONRY STP	34.278	04-0027-008-02	3 M-04	145
	BEAR CREEK	AT HIGHWAY 21 2 MILES N-E OF PETROLIA	73.706	04-0027-010-02	3 B-05	149
	BLACK CREEK	AT COUNTY ROAD 9 WEST OF OIL SPRINGS	49.406	04-0027-009-02	3 A-05	147
	BROWN CREEK	FIRST CONCESSION SOUTH OF WATFORD	117.157	04-0027-011-02	3 C-05	151
	SYDENHAM RIVER	AT CONCESSION 18 ABOVE INGLIS FALLS	7.403	03-0016-003-02	2 B-01	4

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M. PAGE INDEX NO.
SYDENHAM RIVER	SYDENHAM RIVER	AT HIGHWAY 40 WALLACEBURG	4.506	04-0027-001-83	3 I-04 131
	SYDENHAM RIVER	AT DOWN MILLS ROAD UPSTREAM OF DRESDEN	22.530	04-0027-006-02	3 K-04 140
	SYDENHAM RIVER	1ST.CONC SOUTH OF HWY.22 STRATHROY	130.675	04-0027-007-02	3 L-04 142
	SYDENHAM RIVER	1ST.CONC.NORTH OF ALVINSTON	97.041	04-0027-012-02	3 D-05 154
TELFER CREEK	TELFER CREEK	AT THOMPSON MEMORIAL FOOTBRIDGE LEITH	0.483	03-0017-002-02	2 C-01 6
THAMES RIVER	AVON RIVER	AT LORNE AVE STRATFORD	278.570	04-0013-025-02	3 I-01 54
	AVON RIVER	PERTH CO RD14 1.5 KILO N OF SHAKESPEARE	288.330	04-0013-062-02	3 H-03 103
	AVON RIVER	N EASTHOPE TWP.RD.15,1.5 KILO N.OF HWY7	290.090	04-0013-063-02	3 I-03 105
	BIG CREEK	CONC.10 W.TILBURY TWP.W.OF STRANGFIELD	16.737	04-0013-033-02	3 A-02 64
	BIG SWAMP DRAIN	AT COUNTY ROAD NO.32 SOUTH OF DORCHESTER	224.819	04-0013-052-02	3 B-03 93
	BIG SWAMP DRAIN	UPSTR.OF CO.RD.SOUTH OF DORCHESTER	224.900	04-0013-060-02	3 F-03 100
	CEDER CREEK	AT EAST OXFORD TWP.RD.NO.5	257.256	04-0013-072-02	3 E-04 123
	DINGMAN CREEK	1ST.CONC.DOWNSTREAM OF LAMBERT	196.013	04-0013-029-02	3 L-01 60
	DINGMAN CREEK	AT WELLINGTON ROAD	208.726	04-0013-037-02	3 B-02 66
	FOLDENS CREEK	AT CONC. RD. NO. 3 WEST OXFORD TWP.	250.085	04-0013-069-02	3 B-04 117
	LAWTON DRAIN	AT CO.RD.32 2MILES SOUTH OF DORCHESTER	224.980	04-0013-059-02	3 E-03 99
	LOCK DRAIN	AT CONCESSION ROAD 22 HARMICH TWP	45.382	04-0013-031-02	3 M-01 62
	MC GREGOR CREEK	AT HARMICH-HOWARD TOWNLINE	50.693	04-0013-049-02	3 L-02 87
	MIDDLE THAMES RIVER	AT 2ND.CONC.RD.SOUTH OF THAMESFORD	239.786	04-0013-041-02	3 E-02 72
	NEWBIGGIN CREEK	AT MOSA-EKFRID TWP.LINE SOUTH OF HWY.2	116.192	04-0013-073-02	3 F-04 125
	NORTH THAMES RIVER	AT PARK STREET BRIDGE, ST MARYS	254.752	04-0013-015-02	3 F-01 48
	NORTH THAMES RIVER	AT MIDDLESEX COUNTY ROAD 42 LONDON	217.416	04-0013-027-02	3 K-01 58
	NORTH THAMES RIVER	AT HIGHWAY 7	243.326	04-0013-043-02	3 G-02 76
	NORTH THAMES RIVER	AT CONCESSION ROAD 2 SOUTH OF MITCHELL	279.374	04-0013-044-02	3 H-02 78

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.M, PAGE INDEX NO.
THAMES RIVER	NORTH THAMES RIVER	1.4 MILES DOWNSTREAM OF ST MARYS	251.051	04-0013-045-02	3 I-02 80
	NORTH THAMES RIVER	AT MIDDLESEX COUNTY ROAD 28	229.003	04-0013-050-02	3 M-02 89
	NORTH THAMES RIVER	2 MILES UPSTREAM FROM ST.MARY'S	258.775	04-0013-067-02	3 M-03 113
	REYNOLD'S CREEK	AT C/A AREA SOUTH OF HIGHWAY 401	237.533	04-0013-068-02	3 A-04 115
	REYNOLDS CREEK	AT HIGHWAY NO.19	254.973	04-0013-070-02	3 C-04 119
	REYNOLDS CREEK	AT N.DORCHESTER & S.W.OXFORD TWP.LINE	242.293	04-0013-071-02	3 D-04 121
	SCHOOL HOUSE DRAIN	N EASTHOPE CONC 1,3KM WEST OF CONC RD14	6.720	04-0013-076-02	3 H-04 129
	SHARON CREEK	AT SHARON RESERVOIR OUTLET	172.517	04-0013-065-02	3 K-03 109
	THAMES RIVER	AT BRIDGE COUNTY RD 34 PRAIRIE SIDING	14.484	04-0013-007-82	3 E-01 31
	THAMES RIVER	AT DUNDAS STREET WOODSTOCK	258.132	04-0013-016-02	3 G-01 50
	THAMES RIVER	AT FIRST ROAD SOUTH OF INNERKIP	272.133	04-0013-018-02	3 H-01 52
	THAMES RIVER	AT COUNTY ROAD 48 WOODSTOCK	261.028	04-0013-038-02	3 C-02 68
	THAMES RIVER	AT PEMBERTON STREET INGERSOLL	245.257	04-0013-039-02	3 D-02 70
	THAMES RIVER	AT FIRST BRIDGE DOWNSTREAM OF INGERSOLL	239.786	04-0013-042-02	3 F-02 74
	THAMES RIVER	AT COUNTY ROAD 16 KOKOKA	184.748	04-0013-047-02	3 K-02 84
	THAMES RIVER	AT MIDDLESEX COUNTY ROAD 4	215.002	04-0013-051-02	3 A-03 91
	THAMES RIVER	AT HIGHWAY 59 SOUTH OF TAVISTOCK	298.847	04-0013-055-02	3 C-03 95
	THAMES RIVER	AT COUNTY ROAD NO 15 NEAR KENT BRIDGE	49.084	04-0013-058-02	3 D-03 97
	THAMES RIVER	AT MIDDLESEX CO.ROAD NO.45	112.455	04-0013-075-02	3 G-04 127
	TILBURY CREEK	1 MILE SOUTHWEST OF TILBURY STATION	7.725	04-0013-026-02	3 J-01 56
	TILBURY CREEK	AT HIGHWAY 2 WEST OF TILBURY	9.012	04-0013-046-02	3 J-02 82
	TROUT CREEK	AT PERTH COUNTY ROAD NO 28 ST.MARY'S	258.936	04-0013-064-02	3 J-03 107
	TROUT CREEK	AT WEST ZORRA TWP.CONC.ROAD 2-3	269.880	04-0013-066-02	3 L-03 111
	TURKEY CREEK	AT COUNTY RD 19 SOUTH OF SOUTHWOLD	163.344	04-0013-061-02	3 G-03 101

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RIVER BASIN	STREAM	SAMPLE POINT DESCRIPTION	DISTANCE	LOCATION CODE	C.O.H. PAGE INDEX NO.
TURKEY CREEK	TURKEY CREEK	AT WINDSOR SUBURBAN ROAD 40	3.862	10-0001-002-02	5 A-01 279
TYRCONNELL CREEK	DUTTON DRAIN	CONC.RD.7 DUNWICH TWP.S-W OF DUTTON	8.851	16-0072-001-02	6 K-01 305





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